Preliminary Environmental Assessment Equivalent Report 49th Street Elementary School – Major Modernization Project 750 East 49th Street Los Angeles, California 90011

Office of Environmental Health and Safety Los Angeles Unified School District

333 South Beaudry Avenue, 21st Floor | Los Angeles, California 90017

July 19, 2023 | Project No. 211936010



Geotechnical | Environmental | Construction Inspection & Testing | Forensic Engineering & Expert Witness

Geophysics | Engineering Geology | Laboratory Testing | Industrial Hygiene | Occupational Safety | Air Quality | GIS







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Mr. Patrick Schanen

Office of Environmental Health and Safety Los Angeles Unified School District

3 South Beaudry Avenue, 21st Floor | Los Angeles, California 90017

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Aileen Chea

Senior Staff Engineer

Anthony Lizzi, PG, CHG Principal Geologist

AC/DWF/AJL/mlc

Dennis Fee

Senior Project Engineer

No. 799

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1 INTRODUCTION AND SUMMARY

This report presents a summary of the Preliminary Environmental Assessment (PEA) Equivalent work conducted for the 49th Street Elementary School Major Modernization Project. The PEA was conducted within the boundaries of the 49th Street Elementary School at 750 E. 49th Street in Los Angeles, California (site; Figure 1), under the oversight of the Los Angeles Unified School District (LAUSD) Office of Environmental Health and Safety (OEHS).

A Phase I Environmental Site Assessment (ESA) of the 49th Street Elementary School was prepared by Tetra Tech in 2022 (Tetra Tech, 2022). Based on the findings of the Phase I ESA, Tetra Tech recommended that a PEA be conducted at the site to characterize potential environmental conditions that may be present in the site's soil and soil vapor.

In response to this, LAUSD released a Request for Proposals (RFP) to address the recognized environmental conditions and potential environmental concerns outlined in Tetra Tech's Phase I ESA (LAUSD, 2022). The PEA was conducted in general accordance with the Los Angeles Unified School District RFP Scope of Services, dated November 14, 2022 (LAUSD, 2022); proposal for PEA Equivalent, dated December 2, 2022 (Ninyo & Moore, 2022); and Amendment 1, dated March 15, 2023 (Ninyo & Moore, 2023). Additionally, Ninyo & Moore prepared a PEA Equivalent Work Plan that consisted of a sampling rationale table and figure showing the proposed sampling locations. The table and figure presented proposed sampling locations and target contaminants of concern, which were based on the review of the Phase I ESA conducted by Tetra Tech (Tetra Tech, 2022) and other site background documents provided by LAUSD, which are discussed further in Section 4.3.

2 SITE DESCRIPTION

The following discusses site information in more detail.

2.1 Site Name

The site is identified by LAUSD as the 49th Street Elementary School.

2.2 Site Address

The current site address is:

750 E. 49th Street Los Angeles, California 90011

2.3 Designated Contact Person

The designated LAUSD contact person for this project is Mr. Filmon Tesfaslasie, Site Assessment Project Manager.

2.4 Mailing Address

The mailing address designated for this project is:

Office of Environmental Health and Safety Los Angeles Unified School District 333 South Beaudry Avenue, 21st Floor Los Angeles, California 90017 Attention: Mr. Tony Espinoza

2.5 Site Location

The site is located within the property boundaries of 49th Street Elementary School at 750 E. 49th Street, in Los Angeles, California (Figure 1). According to the United States Geological Survey (USGS) Inglewood Quadrangle Map, dated 2015, the site is at an elevation of approximately 180 feet above mean sea level. The site slopes gently to the southwest (USGS, 2015). According to the Los Angeles County Assessor's office, the site consists of parcels that are assigned Assessor's Parcel Numbers 5108-011-909 and 5108-011-910.

2.6 Proposed Project

LAUSD is undertaking a major modernization project at the 49th Street Elementary School.

3 PRELIMINARY ENVIRONMENTAL ASSESSMENT OBJECTIVES

The overall objectives of the PEA included:

- Evaluating historical information for indications of the past use, storage, disposal, or release
 of hazardous wastes/substances at the site.
- Assessing whether historic or current uses have resulted in releases of chemicals of potential concern (COPCs) to the site.
- Establishing, through a field sampling and analysis program, the nature of COPCs that may be present in soil at the site, their concentrations, and general extent.
- Estimating the potential threat to public health and the environment posed by COPCs at the site.

The following regulatory agency screening criteria were used to evaluate the laboratory soil and soil vapor sampling results.

- United States Environmental Protection Agency's (EPA's) Regional Screening Levels (RSLs) for residential soils (EPA, 2023).
- The Department of Toxic Substances Control's (DTSC's) background concentration for arsenic in Southern California (DTSC, 2008a).
- The Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note Number: 3, DTSC-modified Screening Levels (DTSC SLs) (DTSC, 2020).

4 BACKGROUND RESEARCH FOR THE SITE

4.1 Site Information

The site is located on 5.73 acres at the southwest corner of the intersection of East 49th Street and McKinley Avenue in Los Angeles, California. The western portion of the site was developed and occupied by single-family residences starting in 1900 while the eastern part was undeveloped. Around 1922, the eastern portion of the site was developed and occupied by the 49th Street Elementary School. The existing main building (Building ID # 14040) was the only building at the site during this time. Between 1962 and 1970, most of the single-family residences were demolished and the site was developed to the existing site configuration. The current site includes one administration/classroom building (Building ID # 14036), four classroom buildings (classroom building [Building ID # 13718], the west building [Building ID # 13933], main building [Building ID # 14040], south building [Building ID # 13583]), an auditorium building (Building ID # 14196), and a cafeteria building (Building ID # 13566). The remainder of the site (the western portion) is paved with asphalt and is used as a playground and parking area.

4.2 Surrounding Land Use

The site vicinity consists primarily of residential properties with some dispersed commercial properties. The site is bordered by East 49th Street to the north, McKinley Avenue to the east, East 50th Street to the south, and 49th Street Park and residential properties in the west (Figure 1).

4.3 Previous Site Investigations

Ninyo & Moore reviewed the Phase I ESA Report prepared by Tetra Tech, dated March 22, 2022 (Tetra Tech, 2022). Based on the findings of the Phase I ESA, several Recognized Environmental Conditions (REC) were identified for the site. These are:

- The potential presence of lead-contaminated soils associated with the potential use of leadbased paint in the buildings,
- The potential presence of organochlorine pesticide (OCP)-contaminated soils associated with the potential application of OCPs,

- The potential presence of polychlorinated biphenyl (PCB)-contaminated soils due to the
 potential use of PCB-containing caulking and paints in the buildings,
- The Potential presence of arsenic-contaminated soils due to LAUSD's former standard practice of applying herbicides containing arsenic prior to paving,
- The historical presence of a concrete incinerator,
- The presence of an oil tank between the main building and the west building,
- The presence of a second oil tank south of the southwest corner of the existing west building (unknown if the oil tanks are aboveground storage tanks [ASTs] or underground storage tanks [USTs]),
- The presence of two boiler rooms.

RECs and other potential environmental concerns identified in Tetra Tech's Phase I ESA were used to create our sampling rationale table (Table 1) and location of soil/soil vapor borings (Figure 2). Other site-specific documents that were provided by LAUSD, reviewed by Ninyo & Moore, and incorporated into our rationale table and selection of boring locations included the following:

- Asbestos/asphalt survey of Modification Development Zone
- July 27, 2009, Converse Consultants, Export Soil Sampling Report
- October 15, 2007, Lindmark Engineering, Soil Certification Report
- October 30, 2008, Baader Env Services, Soil Certification Report
- Board of Education Map, Historic Central Avenue Community of Schools, Local District Central, Board District 7
- Vault drawings of incinerator Oil Tank (Grading Plan & Piping Plan), 1934 & 1935
- Two plot plans showing locations of the Oil Tank, 1934 & 1948
- Stantec Survey Topographic & Utility Map (July, 2022) 11 individual maps
- GPI Preliminary Geotechnical Investigation, Proposed Major Modernization Project (revised January 2022)
- Auto CADD Files of Site Survey maps

5 GEOLOGY AND HYDROLOGY

The following sections provide a description of the site geology and hydrology.

5.1 Geologic and Soil Conditions

Based on a review of the California Department of Conservation 2010 Geologic Map online, the site is mapped with generalized soil types primarily comprised of Holocene alluvial gravel, sand, and clay, derived mostly from Santa Monica mountains (Dibblee & Minch, 2007).

Soils encountered during this PEA Equivalent consisted of fill material and native alluvium to the maximum depth explored of 15 feet below ground surface (bgs). The fill material was primarily a brown, loose silty sand and fine-grained sand, which was encountered from surface or directly below pavement until total depth of native alluvium was encountered. Fill was encountered up to the maximum depth explored of 15 feet bgs in borings located near the former suspected UST pit in the eastern portion of the site. The alluvium encountered during this PEA consisted primarily of light brown poorly graded sand and well-graded sand. Native alluvium was encountered at 3.5 to 4 feet bgs in the western portion of the site, and generally increased in depth encountered eastward as the age of site development increased (see Figure 2 for different periods of development).

5.2 Site Hydrology

The following sections discuss the site hydrology in terms of both surface waters and groundwater.

5.2.1 Surface Waters

There are no natural surface water bodies, such as streams, rivers, ponds, and lakes, at the site.

5.2.2 Groundwater

According to information reviewed on State Water Resources Control Board's (SWRCB's) GeoTracker website related to the closed leaking underground storage tank case associated with the Winall Oil Company Station No. 9 (4442 Avalon Boulevard), located approximately 0.3 miles to the north-northwest of the site, groundwater was measured in May 2013 at depths ranging from approximately 189.45 to 190.61 feet bgs. The approximate groundwater flow direction was reported to be toward the east. Groundwater levels can fluctuate due to seasonal variations, groundwater withdrawal or injection, and other factors.

6 PUBLIC PARTICIPATION

Prior to the start of field activities, a notice of fieldwork was prepared and posted on the site perimeter fences. The field notices were prepared on LAUSD's letterhead printed double-sided with both English and Spanish languages, and delivered to residences and businesses within line-

of-sight of the school. In addition, field notices were provided to the school students, faculty, and parents to keep them informed about the PEA work. Copies of the English and Spanish versions of the field notices are included in Appendix A.

7 CONCEPTUAL SITE MODEL

A Conceptual Site Model (CSM) was developed to achieve a preliminary understanding of the potential risks to human health and the environment at the site and to assist in developing the sampling plan. The CSM accounts for site-specific conditions and potential impact receptors, and illustrates possible contaminant transport mechanisms and exposure pathways assuming the proposed site condition for the 49th Street Elementary School Major Modernization Project. The CSM presented within this report may be updated as necessary as new information is obtained. Currently, the CSM is informed by review of readily available information and is presented as Figure 3. Given the redevelopment plan for the Site, outside of the potential for direct exposure to site soil during intermittent subsurface maintenance work, direct exposure to subsurface soil is expected to be limited for most site users and residents. However, given all of these factors, the exposure pathways within the CSM are as followed:

- School staff and students are assumed have a limited potential to come into direct contact with surface soils, including through accidental ingestion, inhalation, and dermal contact.
- School staff and students are assumed have a limited potential for inhalation of volatilized soil gas in indoor air.
- Site construction workers for the 49th Street Elementary School Major Modernization Project will, in the course of their work, have the potential to intermittently come into contact with surface and subsurface soils during site redevelopment, excavation, paving, grading, or other earthmoving activities.

Potential impacts related to stormwater runoff or surface water are expected to be nominal for this project, as related media (e.g. shallow soil) and exposure pathways will be mitigated during site construction activities, and will be nominal following project completion.

8 RATIONALE FOR SAMPLING STRATEGY

Prior to initiating field sampling, Ninyo & Moore developed a work plan, in coordination with LAUSD, with the purpose of recognizing COPCs and corresponding Areas of Concern (AOCs) at the site that were identified during our background research (Section 4). The rationale for the sampling strategy implemented for this PEA and the COPCs for each AOC are provided in Table 1 and are summarized below:

- AOC1 AOC1, which consists of shallow soil surrounding buildings planned for demolition (West Building, Auditorium, Cafeteria) was assessed for the presence of lead-based paint, arsenic-containing termiticides and chlorinated pesticides around building footprints, and PCBs in caulking of building materials. COPCs include lead, arsenic, OCPs, and PCBs. Title 22 Metals, Hexavalent chromium, asbestos, and polycyclic aromatic hydrocarbons (PAHs) were also assessed for SCAQMD Rule 1466 requirements.
- AOC2 AOC2, which consists of shallow soil underlying paved areas throughout the site, was assessed for the potential historical application of arsenic-containing herbicides and lead, PCBs, and asbestos from historical buildings that were demolished. Title 22 Metals, hexavalent chromium, and PAHs were also assessed for SCAQMD Rule 1466 requirements.
- AOC3 AOC3, which consists of shallow soil around an electrical transformer at the southern
 portion of the site, was assessed for the potential use and spillage of PCB-containing oil.
 COPCs include PCBs.
- AOC4 AOC4, which consists of four discrete locations placed adjacent to GPI geotechnical borings B-2 through B-5, was sampled to assess uncertified fill against native soil conditions in portions of the site that represents different time periods of site development. COPCs include Title 22 Metals, volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), and OCPs.
- AOC5 AOC5, which consists of the former location of a concrete incinerator south of the West Building, was assessed for potential contaminants associated with the historical use of a concrete gas-fired incinerator. COPCs include Title 22 metals, VOCs, TPH, PAHs, dioxins & furans, and hexavalent chromium
- AOC6 AOC6, which consists of the area around a potential former oil tank used for storing
 petroleum products (likely heating oil) and associated product pipeline identified in historical
 vault drawings, was assessed for potential spills and leaks associated with its use. COPCs
 include Title 22 Metals, VOCs in soil and soil vapor, TPH, and PCBs.
- AOC7 AOC7, located between the Main Building and the West Building, consists of a
 former oil tank and the associated product pipeline, the presence of which was indicated in
 historical vault drawings and the geophysical survey. AOC7 was assessed for potential
 impacts from leaks or spills associated with a former operation of heating oil tank. COPCs
 include Title 22 Metals, VOCs in soil and soil vapor, TPH, and PCBs.
- AOC8 AOC8, which consists of the area of a historical boiler room that was backfilled to
 the west of the Main Building, was assessed for contamination associated with the use of
 boiler room, including heating oils, gases, and other petroleum products. COPCs include Title
 22 Metals, VOCs in soil and soil vapor, TPH, and PCBs.
- AOC9 AOC9, located near a hazardous materials storage shed in the southern portion of the site, was assessed for the historical use and potential spillage of hazardous materials including gasoline and motor oils. COPCs include Title 22 Metals, VOCs, and TPH.
- AOC10 AOC10, located in the asphalt-paved parking lot in the northwest portion of the site, was assessed for vehicle oil leaks and associated subsurface impacts. COPCs include Title 22 Metals, VOCs in soil and soil vapor, and TPH.

9 SAMPLING AND ANALYSIS

Field sampling activities were performed in general accordance with the PEA Equivalent Scope of Services, dated November 14, 2022 (LAUSD, 2022); proposal for PEA Equivalent, dated December 2, 2022 (Ninyo & Moore, 2022); and Amendment 1, dated March 15, 2023 (Ninyo & Moore, 2023). The boring locations, sample depths, rationale, and analyses for each sampling location are provided in Table 1. Photographs of the PEA activities are included in Appendix B. The approximate locations of the soil borings are presented in Figure 2. Boring logs are presented in Appendix C.

9.1 Health and Safety Plan

Ninyo & Moore prepared a site-specific Health and Safety Plan (HSP) in anticipation of field activities at the site. The HSP included requirements, policies and procedures adequate to protect site workers, the public, and the environment from potential site hazards. Contractors involved in this evaluation were required to abide by these requirements. The HSP also provided site-specific scopes of work and indicated COPCs. Prior to the start of field activities, a site safety briefing was conducted to review the HSP, identify potential physical and chemical hazards, and outline measures to be taken in the event of an emergency. On-site personnel were required to sign the safety briefing form.

9.2 Underground Service Alert (USA)

Underground Service Alert (USA) of Southern California (Dig Alert) was notified of the intent to conduct subsurface vertical drilling and sampling activities at least 48 hours prior to the initiation of field tasks. Ninyo & Moore obtained inquiry identification number B230390488 from USA and responded to inquiries from local entities that have active lines in the area. The presence of potential subsurface utilities or obstructions was also checked against utility maps and drawings provided by the LAUSD.

9.3 Utility Clearance and Full-Scan Geophysical Survey

An initial geophysical survey was performed at each proposed sampling location, with the intent to locate utilities and other subsurface structures that could impede the proposed sampling locations. Few borings were moved slightly from their original location to avoid impacts with utilities.

After the initial scan and clearance for utilities at each boring location, a full-scan geophysical survey was conducted in the southern, eastern, and western perimeter of the West Building (highlighted area of Figure 2). The purpose of the full-scan geophysical survey was to identify

subsurface structures and anomalies, namely those identified in the Tetra Tech Phase I ESA (Tetra Tech, 2022) and LAUSD-provided historical drawings and plans. These suspected historical structures included:

- A concrete incinerator
- A heating oil tank between the main building and the west building and associated pipeline and filler box
- A second oil tank south of the southwest corner of the existing west building
- Former boiler room, demolished and backfilled (located west of the main building)

On February 18th and 20th, Subsurface Surveys & Associated, Inc. (SSS) of Carlsbad, California performed the full-scan geophysical survey of the area around the West Building in the northeast portion of the site. Findings of the geophysical survey included the following:

- No evidence of a former incinerator was detected in the area indicated from historical drawings and plans
- In the area of the heating oil tank identified from historical drawings located between the main building and west building, a deep soil disturbance was detected measuring approximately 11 feet 9 inches by 11 feet 6 inches. This coincides well with the location and extent of the former heating oil tank identified during background research. Due to the presence of an access concrete ramp, some of the surrounding areas could not be properly assessed.
- An abandoned fuel line was detected leading to the former heating oil tank area from an oil filler box along East 49th Street and associated sidewalk to the north.
- No evidence of a second oil tank was detected in the area indicated from historical drawings and plans
- In the area of the former boiler room to the west of the Main Building, a shallow soil disturbance was detected measuring approximately 10 feet 8 inches by 6 feet 6 inches, and coincides well with the approximate location and extent of the former boiler room in this area.

Geophysical investigative methods employed for both the utility clearance and full-scan geophysical survey included a combination of electromagnetic induction (EM) and ground penetrating radar (GPR). The geophysical survey report is presented in Appendix D.

9.4 Soil Sampling Activities

On February 18 and February 20, 2023, 36 soil boring locations were advanced to depths ranging between 2.5 to 10 feet bgs to assess COPCs outlined in Table 1. Based on the findings of this first phase of work, and to complete additional borings not previously advanced, 28 additional soil borings were advanced on April 3 and April 5, 2023. These included a number of borings around

the West Building and Cafeteria and from the planter boxes in the northern perimeter of the site to delineate elevated arsenic (Section 10.1.1). Multi-depth soil vapor probes were installed in six borings during this second phase at depths of approximately 5 and 15 feet bgs.

On May 6, 2023, six additional step-out borings were advanced around B34 to define the extents of lead impacts detected at approximately 2.5-feet in boring B34 and two co-located borings were advanced around B40 (B40A) and B41 (B41A) to further delineate the extent of arsenic at the east side of West Building. The locations of the soil borings advanced between February 18 and May 6 are displayed in Figure 2. Sampling protocol, observed site conditions, and observations during this PEA include the following:

- Most of the soil borings advanced for this PEA Equivalent were located in paved areas.
 Borings located within asphalt or concrete were cored to expose the underlying soil for sampling.
- Borings were advanced up to approximately 5 feet bgs using a stainless-steel hand auger.
- A Geoprobe 6620DT was used to advance below 5 feet bgs in borings scheduled for deeper sampling to a maximum depth of approximately 15 feet bgs.
- Interphase Environmental (Interphase) of Commerce, California, provided coring, auguring, and drilling services.
- Soil samples scheduled for VOC analyses were screened in the field for VOCs using a photoionization detector (PID). The PID readings detected at the site ranged from 0.0 to 5.5 ppm.
- Soils encountered during this PEA consisted of fill material and native alluvium to the maximum depth explored of 15 feet below ground surface (bgs) and were logged in accordance with standard USGS classification. See Section 5.1 for a description of encountered soils and Appendix C for boring logs.
- Groundwater was not encountered during PEA field sampling activities.

9.5 Sample Handling

Samples collected were labeled with the sample identification, collection date and time, and sampler's initials. Project number, sampling information, time, date of sample collection, sample matrix type, turn-around-time, container type, requested analysis, and other information were recorded on the chain-of-custody (COC) form. Soil samples were stored in a cooler containing ice and transported under COC protocol to Orange Coast Analytical, Inc. (OCA) in Tustin, California, a State-certified environmental fixed laboratory for various analytical constituents (see Table 1 for details). Soil vapor sampling was conducted on-site using a mobile laboratory administered by Jones Environmental, Inc. (Jones) of Santa Fe Springs, California. Soil vapor samples were

collected in accordance with DTSC protocol (DTSC, 2023) and analyzed at a mobile laboratory for VOCs by EPA Method 8260B.

9.6 Decontamination

A clean and decontaminated hand auger sampler was used for each borehole location. Sampling equipment was decontaminated between sampling intervals and borehole locations using standard industry practices (3-stage rinse of DI Water, Alconox Wash, and DI Water again) to avoid introduction of foreign materials and cross contamination between sampling locations.

9.7 Investigation Derived Wastes

Soil cuttings and decontamination water were stored in three Department of Transportation-approved 55-gallon drums and were staged adjacent to the west boundary of the cafeteria building in co-ordination with the LAUSD representative. The drums were labeled with generator information including: Site name and address, generator name and phone number, contents, date of accumulation, and designated 'pending analysis' for the waste classification. The drums were characterized as non-hazardous waste and removed from the site on June 13, 2023 for disposal at Soil Safe in Adelanto, California. The signed non-hazardous waste manifest is included in Appendix E.

10 ANALYTICAL RESULTS

The following presents the results of PEA sampling activities. Analytical results are presented in Tables 2, 3, 4, 5, and 6. Laboratory reports are presented in Appendix F.

10.1 Soil Sampling for Metals

Concentrations of metals other than arsenic and lead were not detected above the laboratory reporting limits and/or above the residential screening levels. Analytical results for Title 22 metals analyzed are summarized in Table 2.

10.1.1 Arsenic

Arsenic were reported in of the soil samples analyzed. Eighteen (18) soil samples were reported as having arsenic concentrations above the DTSC Acceptable Clean Up Level of 12 milligrams per kilogram (mg/kg). Soluble threshold limit concentration (STLC) and toxicity characteristic leaching procedure (TCLP) concentrations were analyzed in all samples that exceeded the 20 times TCLP value and/or 10 STLC value. Four soil samples (B4-0.5, B4-2.5, B4-W2-0.5, and B41A-0.5) were reported exceeding the STLC level of 5.0 milligrams per liter (mg/l), and one soil sample (B4-0.5) exceeding TCLP waste level of 5.0 mg/l.

Elevated arsenic concentrations (above 12 mg/kg) were encountered in the northern portion of the site (north of the West Building, Administration/Library Building, Classroom Buildings) and in the southern portion of the Site (south of Cafeteria Building). The extent of the elevated arsenic is defined in the northern portion of the site by borings B20 to the west and B40 to the east. The maximum arsenic concentration (720 mg/kg) was reported along the northeastern perimeter of the West Building (sample collected from boring B4). The soluble arsenic (STLC) and leaching (TCLP) concentrations exceeded their respective values. Therefore, soil excavated from this area should be characterized as Federal (Resources Conservation and Recovery Act [RCRA]) hazardous waste upon excavation. Elevated concentrations of arsenic are shown in Figure 4.

10.1.2 Lead

Three near-surface (0 to 0.5 feet bgs) soil samples collected from primary borings (B10, B16, and B45) during this PEA contained lead at concentrations of 91 mg/kg, 92 mg/kg, and 200 mg/kg, respectively. These concentrations exceed the DTSC residential SL of 80 mg/kg. Additionally, soil samples from B34 and step-out boring B34-NE, collected from approximately 2 to 2.5 feet bgs, contained reported concentrations of lead at 230 and 360 mg/kg, respectively. Additionally, soil sample B34-2.5 exceeded the STLC level of 5.0 mg/l, characterizing the soil as California hazardous. California hazardous soil in this area was delineated to the northeast by sample B34-NE2-2.5. No samples reported exceedances of the lead TCLP of 5 mg/l. Elevated lead concentrations from this PEA are displayed in Figure 4.

Based on the results of lead above 80 mg/kg discovered in certain locations, the 95 Percent Upper Confidence Limit (95% UCL) for lead in soil (excluding B34 and associated step out borings) was calculated in ProUCL to assess whether lead detected at the site represents an unacceptable risk to site occupants. The 95% UCL for lead in soils at the site was calculated as 36.8 mg/kg, which is below the DTSC SL of 80 mg/kg. The 95% UCL calculation for lead is provided in Appendix G. Based on this result, lead is not considered an environmental concern at the site, with the exception of the "hot spot" located around B34 at approximately 2.5 feet bgs.

10.2 Soil Sampling for TPHs

TPH as gasoline, diesel, and motor oil range organics was analyzed in 44 samples collected throughout the site. Diesel range organics (DROs) were detected in three of the samples analyzed, ranging from 12 to 490 mg/kg. One sample (B45-0.5) collected in the parking lot area

in the northwest portion of the site, had a reported concentration of DRO of 490 mg/kg, which exceeds EPA's RSL of 97 mg/kg. The motor oil range organic (MRO) concentration in this sample was also detected at 1,900 mg/kg in the surface sample. These elevated concentrations are likely the result of oil and fuel leaks associated with the use of the parking lot. It should be noted that the surrogate recovery for this sample was above laboratory acceptance limits.

Concentrations of MROs and gasoline range organics (GROs) were not detected above the EPA RSLs in any of the samples analyzed. Analytical results are presented in Table 3.

10.3 Soil Sampling for VOCs

Concentrations of VOCs were not detected above the laboratory reporting limits in the 38 soil samples analyzed. Analytical results are summarized in Table 3.

10.4 Soil Sampling for PAHs

Concentrations of PAHs were not detected above the laboratory reporting limits in the 15 samples analyzed. Analytical results are presented in Table 3.

10.5 Soil Sampling for Asbestos

Asbestos was initially estimated via polarized light microscopy (PLM) in soil sample B20-0.5 but was not detected in the soil samples B20-0.5 and B20-2.5 when using 1,000-point count analysis. This soil is not considered a regulated waste on the federal, state, or local level and therefore no additional action is required with respect to asbestos. Asbestos was not detected in any other sample analyzed. Analytical results are presented in Table 3.

10.6 Soil Sampling for OCPs

Concentrations of OCPs were not detected above the laboratory reporting limits in the nine discrete or 12 composite samples analyzed. Analytical results are presented in Table 4.

10.7 Soil Sampling for PCBs

One sample (B19-0.5) reported an Aroclor 1254 concentration of 250 μ g/kg, which exceeds EPA's RSL of 240 μ g/kg. Concentrations of other PCBs were either not detected above the laboratory reporting limits or above associated residential screening levels. Analytical results are summarized in Table 4.

Based upon these results, the 95% UCL for PCB-Aroclor 1254 in soils was assessed in ProUCL. The 95% UCL for PCB-Aroclor 1254 in soils at the site was calculated as $46.59 \mu g/kg$, which is

below the EPA RSL of 240 μ g/kg. The 95% UCL calculation for PCB-Aroclor 1254 is provided in Appendix G.

10.8 Soil Sampling for Dioxins and Furans

One sample collected at the surface near the former extent of the concrete incinerator (B36-0.5) was analyzed for dioxin and furans by EPA Method 8290A. Dioxin and furan compounds 1,2,3,7,8,9-HxCDF, 1,2,3,4,6,7,8-HpCDD, 1,2,3,4,6,7,8-HpCDF, OCDD, and OCDF were reported in this sample ranging between 0.13 to 2.3 picograms per gram (pg/g). The remaining dioxins and furans compounds were not detected above the laboratory detection limits. The five dioxins and furans with reported results were below the reporting limit and are considered estimated concentrations (detected between the reporting limit and detection limit). Additionally, these compounds were reported below EPA RSLs for dioxin-like compounds, using EPA-recommended Toxic Equivalency Factors (TEFs).

All analytes yielding results were also found in the method blank. Method 8290A is an ultra-low sensitive method and it is a common occurrence to see low level detections in samples and method blanks. It also is possible that the detections in this sample are a "false positive" and were also a result of residuals from prior samples, but these instances cannot be confirmed. Analytical results are summarized in Table 5.

10.9 Soil Vapor Sampling for VOCs

Soil vapor samples were collected from six (6) borings with dual-nested probes at 5 and 15 feet bgs (12 primary samples plus one replicate sample). The analytical results of the VOCs in soil vapor were compared to the modified EPA RSLs for residential air and the modified DTSC HERO SLs for residential air calculated, with vapor intrusion attenuation factor of 0.03. Analytical results for VOCs at the site are summarized in Table 6. The results of soil vapor sampling are summarized as followed:

- Tetrachloroethene (PCE) was reported in the 12 samples ranging from 16 to 91 micrograms per cubic meter (μg/m³). All reported PCE concentrations exceed the modified DTSC SL of 15.3 μg/m³ (using an attenuation factor of 0.03).
- Other VOCs detected included 1,2,4-trimethylbenzene, ethylbenzene, Freon 112, Toluene, and Xylenes. These VOCs were detected at levels below applicable screening levels using an attenuation factor of 0.03.

Due to the detection of PCE at the site at levels exceeding the modified DTSC SL, a Human Health Screening Risk Evaluation was performed to calculate and assess risks to human health from vapor intrusion, which is presented in the following section.

11 HUMAN HEALTH SCREENING RISK EVALUATION

Ninyo & Moore conducted a Vapor Intrusion Risk Evaluation (VIRE) for the site, with the purpose to assess whether the VOCs detected in soil gas under the property are likely to exceed levels considered acceptable to California health and environmental protection agencies. The risk evaluation was based on soil gas analytical data collected at the site on April 6, 2023 for the PEA. A summary of soil gas analytical data is provided in Table 6. Vapor intrusion risk calculation tables referenced throughout this section are provided in Appendix H.

Environmental investigations conducted at the site revealed that traces of VOCs exist in soil gas at the site. The potential for VOC vapor intrusion into one of the onsite buildings was evaluated in this VIRE. Based on current land use, a school exposure scenario was evaluated. The school-based land-use scenario was developed to reflect actual occupancy rates for staff and students at the elementary school site. Therefore, a set of receptor-specific exposure assumptions were used for each type of individual.

The 49th Street Elementary School operates on a two-semester school schedule. Exposure parameters used to characterize school staff and students were taken directly from the Cal-EPA's Guidance for School Site Risk Assessment Pursuant to Health and Safety Code Section 901(f): Guidance for Assessing Exposures and Health Risks at Existing and Proposed School Sites (Cal-EPA 2003). Exposure parameters used to characterize school staff and students are presented in Table G1.

11.1 Vapor Intrusion Risk Evaluation Methodology

Risk characterization involves estimating the magnitude of the potential adverse health effects that could occur due to chronic, long-term exposure to chemicals identified in soil gas at the site. The risk characterization is based on the results of the dose-response (toxicity) and exposure assessment.

It is known that chemicals may migrate through environmental media from their source to a point where human receptors may be exposed. Therefore, it was necessary to determine if the detected VOCs – given their residual concentrations, locations, soil physical characteristics, weather conditions, etc. – could potentially migrate up to the surface (where human receptors may be exposed).

Screening-level models were used to predict indoor air concentrations that may result from the chemical vapors potentially released from soil gas under the site. The estimated vapor flux and indoor air concentrations were then used to estimate potential health risks that may result from

onsite exposures. For purposes of this evaluation, it was assumed that the land use is a middle school campus. The only exposure pathway that was considered complete was the volatilization of VOCs from soil gas and the subsequent emission to indoor air.

In this evaluation, maximum detected chemical concentrations (Table 6) were considered representative of chemical concentrations present in soil gas under the site. A copy of the soil gas laboratory analytical report is included in Appendix F.

The DTSC guidance recommends that multiple lines of evidence be used when evaluating the potential risk and hazards posed by vapor intrusion. DTSC recommends that the indoor air chemical concentrations that can result from vapor intrusion be estimated using the following equation:

$$AF = \frac{C_{indoor}}{C_{soil\ gas}}$$

Where:

AF = Attenuation factor (unitless)

 C_{indoor} = Indoor air concentration (micrograms per cubic meter [ug/m³])

 $C_{\text{soil gas}}$ = Soil gas concentration (ug/m³)

Using the above equation, the indoor air chemical concentration can be estimated by multiplying the known soil gas concentration by the default attenuation factor (AF).

In accordance with DTSC (2011) guidance, the default AF for residential buildings (0.001) was used in this VIRE along with the maximum subsurface concentrations (Table 6). The DTSC default AF reflects reasonably protective assumptions for conditions in California for the contamination of indoor air due to vapor intrusion (DTSC, 2011). However, DTSC (2023) also recommends that risk assessments evaluate vapor intrusion using the United States Environmental Protection Agency (USEPA) default AF of 0.03 (USEPA, 2015).

The AF of 0.03 was developed by the USEPA for the evaluation of sub-slab soil gas data (https://www.epa.gov/vaporintrusion/visl-users-guide). The AF of 0.03 assumes the source of contamination is located directly under the floor slab of the building. It is well known that soils have the capacity to reduce vapor flow in the subsurface. The vapor flow mitigating capacity of soils is directly proportional to the depth of the soil layer that separates the building from the source of VOCs. Specifically, the soil's combined physical, chemical and/or lithological properties

act to reduce or limit the migration of VOCs through the soil's pore spaces (Little, Daisey and Nazaroff, 1992). The natural ability of soils to reduce vapor migration is not taken into consideration when the AF of 0.03 is assumed. Indoor air VOC concentrations estimated using the AFs of 0.001 and 0.03 are presented in Tables G2 and G3, respectively.

The vapor intrusion model assumes that the concentrations in indoor air are proportional to the flux throughout the soil column, and that a gas infiltrating into the building through the foundation floor is uniformly and instantaneously mixed within the air space above the lowest occupied floor of the building. Because this model ignores a number of possible mitigating factors, it is likely that it over-predicts the chemical flux to indoor air. However, because of its simplicity, this approach provides a simple method to estimate the likely maximum rate at which chemicals would be transported to the surface soils and into a building.

The indoor air chemical concentrations estimated to result from the volatilization of VOCs could be considered to represent a "worst-case" estimate. In the calculations, it was assumed that single chemical compounds are volatilizing, traveling alone through the vadose zone and escaping to ambient air. In reality, all chemicals detected at the site are competing with each other for available soil-pore space. It is well known that chemical volatilization and migration is limited by the vapor saturation in the vadose zone. Indoor air VOC concentrations estimated using the AFs of 0.001 and 0.03 are presented in Tables G2 and G3, respectively.

11.2 Toxicity Values

The toxicity assessment characterizes the relationship between the magnitude of exposure to a COPC and the nature and magnitude of adverse health effects that may result from such exposure. For the purposes of calculating exposure criteria to be used in risk assessments, adverse health effects are classified into two broad categories – carcinogens and non-carcinogens. Toxicity values/exposure criteria are generally developed based on the threshold approach for non-carcinogenic effects and the non-threshold approach for carcinogenic effects. Toxicity values may be based on epidemiological studies, short-term human studies, and subchronic or chronic animal data.

A reference concentration (RfC) is an exposure concentration in air that is not expected to cause adverse health effects over a lifetime of daily exposure in the most sensitive population. All RfCs used in this evaluation to estimate non-carcinogenic chronic health hazards are presented in Table G4.

Health risks for exposures to carcinogens are defined in terms of probabilities. The probabilities quantify the likelihood of a carcinogenic response in an individual that receives a given dose of a

particular compound. These probabilities are calculated based on the potential exposure concentration and the inhalation unit risk (IUR) for a chemical.

The IUR, which is expressed in units of inverse micrograms per cubic meter (ug/m³)-¹, is the 95% Upper Confidence Limit (UCL) of the probability of carcinogenic response per unit daily exposure to a given chemical concentration over a lifetime. The IUR multiplied by the lifetime exposure concentration of the chemical provides an estimate of the 95% UCL of the theoretical cancer risk for the specific chemical. The IURs used in this evaluation to estimate carcinogenic dose-assessment risks are presented in Table G4.

In this assessment, chronic toxicity criteria were selected in accordance with the DTSC Regulation "Toxicity Criteria for Human Health Risk Assessment" (effective September 2018) (https://dtsc.ca.gov/LawsRegsPolicies/Regs/Toxicity-Criteria-for-Human-Health-Risk-Assessment). Toxicity information was obtained from the DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 10, Toxicity Criteria (DTSC, 2019b).

11.3 Risk Characterization

This section discusses the methods used to quantify the exposure concentration (EC) for potential receptors at the site. The estimated ECs for each VOC were used to estimate the potential for carcinogenic health risks and non-carcinogenic adverse health effects. The potential inhalation exposures were calculated using the following equation (USEPA, 2009):

$$EC = \frac{CA \cdot ET \cdot EF \cdot ED}{AT}$$

Where:

EC = Exposure concentration, ug/m³

CA = Chemical concentration in air, ug/m³

ET = Exposure time, hours/day

EF = Exposure frequency, days/year

ED = Exposure duration, years

AT = Averaging time, hours (used the equivalent of 70 years for carcinogens and same value as ED for non-carcinogens).

Inhalation intake factors were combined with estimated indoor air chemical concentrations (CA) to obtain the exposure concentration for onsite school staff. Exposure parameters used to

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characterize onsite school staff (workers) are presented in Table G1. Students were not evaluated here as their exposure is expected to lower than those assumed for school staff.

11.3.1 Non-Carcinogenic Health Hazard Evaluation

The evaluation of non-carcinogenic health hazards began with a calculation of the hazard quotient or HQ for each chemical. The HQ is defined as the ratio of the exposure concentration (EC) to the reference concentration (RfC). The HQ can be expressed according to the following equation:

$$HQ = \frac{EC}{RfC}$$

Where:

HQ = Hazard quotient, unitless

EC = Exposure concentration, ug/m³

RfC = Reference concentration, ug/m³

The estimated HQs are compared to an acceptable hazard level. Implicit in the HQ is the assumption of a threshold level of exposure below which no adverse effects are expected to occur. For example, if the HQ exceeds unity (because site-specific exposure exceeds the RfC), then the potential for non-cancer adverse effects may exist. In general, the greater the value above 1.0, the greater the potential hazard. In contrast, HQs of less than 1.0 indicate that no adverse health effects are expected to occur from exposure to chemicals at the site.

According to the USEPA (1989), if the HQ for a combination of chemicals is less than unity (1.0), there is no concern for potential chronic adverse health effects from the chemical exposures. The HQs estimated for school receptors are:

Students

- 0.0008 using an AF of 0.001 (Table 6).
- 0.02 using an AF of 0.03 (Table 7).

School Staff

- 0.001 using an AF of 0.001 (Table 8).
- 0.03 using an AF of 0.03 (Table 9).

The HQs estimated for both school staff and students are below the DTSC (2015) benchmark value of 1. All estimated HQs are within levels considered acceptable to California health and environmental protection agencies.

11.3.2 Cancer Risk Estimates

Cancer risks were estimated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to a potential carcinogen (i.e., incremental or excess individual lifetime cancer risk; USEPA, 1989). Cancer risks were calculated in accordance with DTSC (2015) and USEPA (1989) guidelines.

$$Risk = EC \cdot IUR$$

Where:

Risk = Upper bound incremental lifetime carcinogenic risk, unitless

EC = Exposure concentration, ug/m³

IUR = Inhalation unit risk, $(ug/m^3)^{-1}$

The excess cancer risk was compared to the risk level considered acceptable by federal and state regulatory agencies. The target cancer risk level identified by the DTSC in the Preliminary Endangerment Assessment (PEA) Guidance Manual is 1 in 1 million (1.0E-06). However, the USEPA has established acceptable incremental cancer risk levels to be within the risk range of 1 in 10,000 (1.0E-04) and 1.0E-06; risks greater than 1.0E-04 are generally considered unacceptable. Cal-EPA has defined a risk of 1 in 100,000 (1.0E-05) as the "no significant level" for carcinogens under California Proposition 65. Further, most California air districts use the 1.0E-05 risk level as the notification trigger level under California's AB2588 Toxic Hot Spots Program.

Using the maximum detected VOC concentrations (Table 1), the cancer risk estimated for the school receptors are:

Students

- 9E-09 using an AF of 0.001 (Table 10).
- 3E-07 using an AF of 0.03 (Table 11).

School Staff

- 5E-08 using an AF of 0.001 (Table 12).
- 2E-06 using an AF of 0.03 (Table 13).

The cancer risks estimated for students are below the DTSC (2015) benchmark value of 1E-06). The cancer risks estimated for school staff are below the "significant risk level" established by California Proposition 65. All estimated cancer risks are within levels considered acceptable to California health and environmental protection agencies.

11.4 VIRE Conclusions and Recommendations

Environmental investigations conducted at the site by N&M and others revealed that traces of VOCs exist at the site. The potential for VOC vapor intrusion into an onsite building was evaluated in this VIRE. Results of the VIRE indicate that the probability of developing cancer as a result of exposures to indoor air at the site is less than 3E-07 for students and 2E-06 for school staff. These estimated cancer risks are well below the known cancer risk for the United States population and are deemed acceptable by the DTSC. Similarly, the estimated Hazard Quotients are below the hazard quotient of 1.0, which is considered acceptable to the California Environmental Protection Agency. In other words, no significant cancer risks or health hazards are anticipated to occur as a result of exposures to chemicals detected in soil gas under the site.

It should be noted that the VIRE was based on conservative (health-protective) assumptions, estimates, models, and parameters. Therefore, the results are not absolute estimates of health risks at the site but are health-protective estimates.

The conclusions and recommendations presented in this report are professional opinions based solely upon the data described in this report. They are intended exclusively for the purpose outlined herein and the property's location and project indicated. The scope of services performed in execution of this investigation may not be appropriate to satisfy the needs of users other than LAUSD. Any use or reuse of this document or the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

Given that the scope of services for this investigation was limited, and that conditions may vary between the points explored, it is possible that currently unrecognized subsurface contamination might be present at the site. Should site use or conditions change, the information and conclusions in this report may no longer apply. Opinions relating to environmental and public health conditions are based on limited data and actual conditions may vary from those encountered at the times and locations where data were obtained. No express or implied representation or warranty is

included or intended in this report except that the work was performed within the limits prescribed by the Client with the customary thoroughness and competence of professionals working in the same area on similar projects.

12 FINDINGS AND CONCLUSIONS

Based on the results of this evaluation, Ninyo & Moore provides the following findings and conclusions:

12.1 Soil

- The full-scan geophysical survey conducted between the Main Building and West Building revealed the presence of a deep soil disturbance that coincides with the likely location of a heating oil tank. The deep borings advanced to 15 feet bgs in the vicinity of the likely location of the tank did not encounter the tank or any contamination that could have result from a release. It is most likely the disturbed soil identified during the geophysical survey is the former location of the tank.
- DROs were detected in three of the samples analyzed, ranging from 12 to 490 mg/kg. One sample (B45-0.5) collected in the parking lot area in the northwest portion of the site, contained a reported concentration of DRO of 490 mg/kg, which exceeds EPA's RSL of 97 mg/kg. The MRO concentration in this sample was also detected at 1,900 mg/kg in the surface sample only. Elevated TPH concentrations at B45 are likely the result of oil and fuel leaks associated with the use of the parking lot.
- VOCs, PAHs, OCPs, and asbestos were not detected above the laboratory reporting limits in the soil samples collected at the site for this PEA.
- One sample (B19-0.5) had a reported concentration of PCB Aroclor 1254 of 250 μg/kg, which
 exceeds EPA's RSL of 240 μg/kg. Concentrations of other PCBs were either not detected
 above the laboratory reporting limits or above associated residential screening levels. Based
 on the results of a 95% UCL calculation, PCBs are not considered a concern at the site.
- Dioxins and furans concentrations ranged between 0.13 and 2.3 pg/g below the EPA RSLs using EPA-recommended TEFs.
- Arsenic was detected above the DTSC-established background concentration of 12 mg/kg in eighteen (18) soil samples up to a maximum concentration of 720 mg/kg. Elevated arsenic was found primarily in the northern portion of the site. Select samples around the West Building in the northeast portion of the site contained arsenic concentrations above the STLC of 5 mg/l and/or TCLP of 5 mg/l, which should be characterized and disposed as hazardous material.
- Lead was detected above the DTSC SL of 80 mg/kg in six soil samples collected at the site, up to a maximum concentration of 360 mg/kg. The results of a 95% UCL calculation indicate that lead is not an environmental concern at the site, with the exception of the "hot spot" identified at B34 approximately 2.5 feet bgs which should be characterized and disposed as hazardous material.

 Except for lead and arsenic, constituents listed under SCAQMD Rule 1466 were not reported above the laboratory reporting limit or their respective screening level for residential scenarios.

12.2 Soil Vapor

- PCE was reported in the soil vapor samples collected during this PEA ranging from 16 to 91 μg/m³ and collected throughout various areas the site. Reported PCE concentrations exceeded the modified DTSC SL of 15.3 μg/m³ (applying an attenuation factor of 0.03).
- Due to the exceedance of modified DTSC SLs, Ninyo & Moore conducted a VIRE to assess vapor intrusion health risks to site occupants. Results of the VIRE indicate that the probability of developing cancer as a result of exposures to indoor air at the site is less than 3E-07 for students and 2E-06 for school staff. These estimated cancer risks are well below the known cancer risk for the United States population and are deemed acceptable by the DTSC.
- Other VOCs were detected at levels below applicable DTSC screening levels using an attenuation factor of 0.03 or were not detected above laboratory reporting limits.

13 RECOMMENDATIONS

Based on the findings of this investigation, Ninyo & Moore provides the following recommendations:

- A Removal Action Workplan (RAW) be prepared detailing the proper management, characterization, and disposal requirements for subsurface structures and impacted soil in the following areas identified during this PEA:
 - The abandoned fuel line identified leading from East 49th Street to the former suspected heating oil tank located between the West and Main Buildings
 - TPH DRO-impacted soil around in the northern parking area (approximately 500 cubic yards [yd³])
 - Lead impacted soil in the vicinity of boring B34 (approximately 10 yd³)
 - Arsenic impacted soil in the northern portion of the site delineated by B20 to the west and B40 to the east-southeast; and arsenic-impacted soil south of the Cafeteria Building (approximately 1,400 yd³)
- SCAQMD Rule 1466 is not applicable for the remaining areas within the Major Modernization Project limits that are outside the areas subject to the RAW described above.

14 LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in Site conditions may exist and conditions not observed or described in this report may be encountered during

subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-Site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject Site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed Site conditions. It should be understood that the conditions of a Site could change with time as a result of natural processes or the activities of man at the subject Site or nearby Sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

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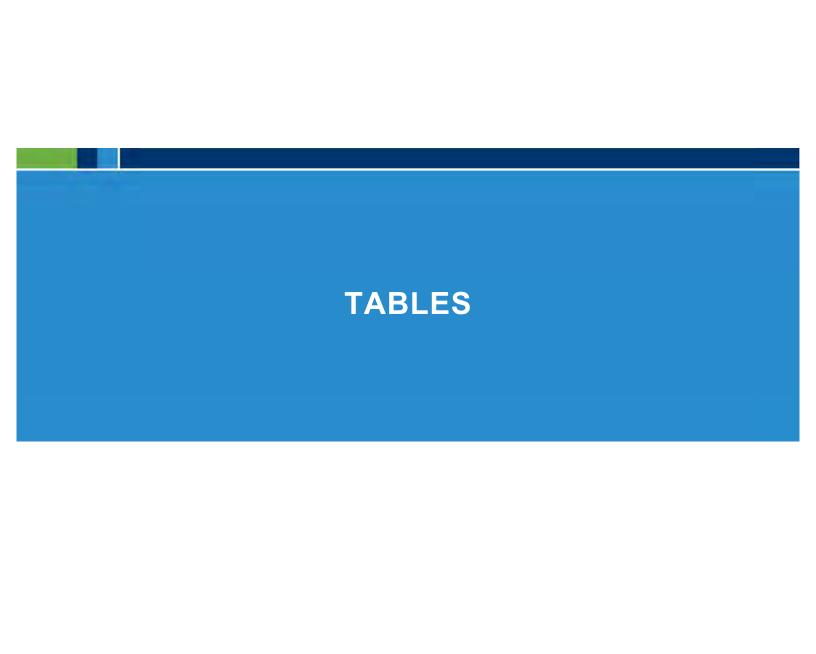


Table T - Piell	Illiliary Ell			nale Matrix for Soil and Soil Vapor - First and Second F	- Huse of Wo		# of Commit					
Area of Concern	# of Borings	Boring ID	Location	Sampling Rationale	Matrix	Sample Depths (ft, bgs)	# of Samples Analyzed	Proposed Chemical Analysis				
	6	B1-B6	West Building					Lead and arsenic by EPA Method 6010B in surface, hold 2.5-foot samples, OCPs* composited and				
	6	B7-B12	Auditorium	Lead-based paint, use of termiticides and herbicides around building footprint, PCBs in caulking of building materials	Soil	0.5, 2.5	18 (18 on hold) 12 composites	analyzed by EPA Method 8081A, PCBs analyzed in 10% of samples collected by EPA Method				
	6	B13-B18	Cafeteria	in eduking of building fractions			12 composites	PLM, PAHs by EPA Method 8270-SIM in 50% of samples (for SCAQMD Rule 1466)				
AOC1	7	B4-5W, -10W, -5N, - 10N, -5E, -10E; B2-10N	West Building	5 to 10-foot lateral step-out borings to asses extent of arsenic impacts >12 mg/kg	Soil	0.5, 2.5, 5	7 (14 on hold)	Arsenic by EPA Method 6010B				
	1	B4-V	West Building	Co-located boring to assess vertical extents of arsenic impacts >12 mg/kg	Soil	0.5, 2.5, 5, 7.5	2 (2 on hold)	Arsenic by EPA Method 6010B				
	2	B4-W3, W4	West Building	Additional step-out borings to asses extent of arsenic impacts >12 mg/kg	Soil	0.5, 2.5	2 (2 on hold)	Arsenic by EPA Method 6010B				
	2	B14-20S, -20E	Cafeteria	20-foot lateral step-out borings to asses extent of arsenic impacts >12 mg/kg	Soil	0.5, 2.5	2 (2 on hold)	Arsenic by EPA Method 6010B				
AOC2	12	B19-B30	Paved/Landscaped Areas	Application of arsenic-containing herbicides	Soil	0.5, 2.5, 5	12 (24 on hold)	Lead and arsenic by EPA Method 6010B in subsurface, hold 2.5-foot and 5-foot samples, PCBs analyzed in 10% of samples collected by EPA Method 8082. Title 22 Metals by 6010B/7471A, hexavalent chromium by EPA Method 7199, Asbestos by PLM, PAHs by EPA Method 8270-SIM in 30% of samples (for SCAQMD Rule 1466)				
AUGZ	3	B21-50W, B20-50E, B20-50W	Paved/Landscaped Areas	Step-out borings 50 feet west to asses extent of arsenic impacts >12 mg/kg	Soil	0.5, 2.5	1 (1 on hold)	Arsenic by EPA Method 6010B				
	5	S-1 - S-5	Planter Boxes at Northern Perimeter	Application of arsenic-containing herbicides, assess extents of arsenic impacts >12 mg/kg	Soil	0.5	5	Arsenic by EPA Method 6010B				
AOC3	1	B31	Electrical Transformer	PCB-containing oil used adjacent to Electrical Transformer	Soil	0.5, 2.5	1 (1 on hold)	PCBs by EPA Method 8082 in subsurface, hold 2.5-foot sample				
	2	B32-B33	Co-located adjacent to Geotechnical Borings	Assess uncertified fill vs. native soil conditions in GPI geotechnical borings B-2 - B-5 representing different time periods of site development	Soil	2.5, 5, 10	4 (2 on hold)	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B, TPH-g/d/o by EPA Method 8015B, OCPs by EPA Method 8081A				
AOC4	2	B34-B35 Co-located adjacent to Geotechnical Borings		Assess uncertified fill vs. native soil conditions in GPI geotechnical borings B-2 - B-5 representing different time periods of site development	Soil	2.5, 5, 10	4 (2 on hold)	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B, TPH-g/d/o by EPA Method 8015B, OCPs by EPA Method 8081A				
71004	2	SV5	Probes Installed in B34	Spatial distribution of vapor probes around the site	Soil Vapor	5, 15	2	VOCs by EPA Method 8260B (using a mobile lab)				
	6	B34-NE, -NE2, -NW, - NW2, -SW, SW2	Paved Area in Central Portion of Site	Step-out boring to assess extent of lead impacts with STLC>5 mg/l	Soil	0.5, 2.5	6 (6 on hold)	Lead by EPA Method 6010B				
AOC5	1	B36	Former Incinerator	Historical use of gas-fired incinerator	Soil	0.5, 2.5, 5, 10	2 (2 on hold)	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B, TPH-g/d/o by EPA Method 8015B, PAHs by EPA Method 8270-SIM, Dioxins & Furans by EPA Method 8290A (surface only), Hexavalent chromium by EPA Method 7199 (surface only). Hold 5 and 10-foot samples				
100/	1	B37	Farmer Oll Tank #1	Ulaterical use of all tools for election natural cure products and natural calls as leads	Soil	0.5, 2.5, 5, 10, 15	5	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B (not analyzed at surface), TPH-g/d/c by EPA Method 8015B, PCBs by EPA Method 8082				
AOC6	'	SV1	Former Oil Tank #1	Historical use of oil tank for storing petroleum products and potential spills or leaks	Soil Vapor	5, 15	2	VOCs by EPA Method 8260B (using a mobile lab)				
	2	B38-B39	Former Oil Tank #2	Historical use of 1,000-gallon UST for storing petroleum products and potential spills	Soil	0.5, 2.5, 5, 10, 15	10	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B (not analyzed at surface), TPH-g/d/c by EPA Method 8015B, PCBs by EPA Method 8082				
AOC7	2	SV2-SV3	(Potential heating oil tank)	or leaks	Soil Vapor	5, 15	4	VOCs by EPA Method 8260B (using a mobile lab)				
AUCI	3	B40-B42	Associated product pipeline to 1,000-gallon UST	Historical use of 6-inch diameter oil pipeline leading from oil filler box to 1,000-gallon UST	Soil	2.5, 5	3 (3 on hold)	VOCs by EPA Method 8260B, TPH-g/d/o by EPA Method 8015B (2.5-foot sample, hold 5-foot)				
	1	B46	Former UST	Assess impacts directly within and underneath former tank pit area where subsurface anomalies were found	Soil	0.5, 2.5, 5, 10	2 (2 on hold)	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B (not analyzed at surface), TPH-g/d/c by EPA Method 8015B				
AOC8	1	B43	Former Boiler Room	Historical use of boiler room, heating using oils, gases, and other petroleum products	Soil	0.5, 2.5, 5, 10, 15	5	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B (not analyzed at surface), TPH-g/d/c by EPA Method 8015B, PCBs by EPA Method 8082				
AUC0		SV4	rumei bullet kuulii	riistorical use of boller room, heating using oils, gases, and other petroleum products	Soil Vapor	5, 15	2	VOCs by EPA Method 8260B (using a mobile lab)				
AOC9	1	B44	Hazardous Materials Storage Container	Use of hazardous materials such as gasoline and motor oils and potential leaks or spills	Soil	0.5, 2.5, 5	2 (1 on hold)	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B, TPH-g/d/o by EPA Method 8015B. Analysis will be conducted based on 2 highest PID readings, and if all zero, then 2 shallowest.				

Table 1 – Preliminary	v Environmental Assessment Sampl	ling Rationale Matrix for Soil and Soil Vap	or - First and Second Phase of Work
Table I — I Tellilliai	y Environmental Assessment Gampi	ing itationale matrix for boll and boll vap	

Area of Concern	# of Borings	Boring ID	Location	Sampling Rationale	Matrix	Sample Depths (ft, bgs)	# of Samples Analyzed	Proposed Chemical Analysis
AOC10	1	B45	Parking Lot	Surface staining from vehicle oil leaks in asphalt-paved parking lot. Spatial distribution of probes	Soil	0.5, 2.5, 5, 10, 15	2 (3 on hold)	Title 22 Metals by 6010B/7471A, VOCs by EPA Method 8260B, TPH-g/d/o by EPA Method 8015B. Analysis will be conducted based on 2 highest PID readings, and if all zero, then 2 shallowest.
AUCIU		SV6			Soil Vapor	5, 15	2	VOCs by EPA Method 8260B (using a mobile lab)

Total for 1st Phase

otal for 2nd Phase

Notes:

Sampling completed in the first phase of work

Sampling completed in the second phase of work

Sampling completed during additional step-out sampling

* - Samples analyzed for OCPs around building exteriors will be composited in accordance with DTSC Guidance Documents (DTSC, 2006). Discrete analysis will be conducted pending the results of the composite sample.

A,B,C - step-out sampling convention will be in a triangle formation, with the "A" sample 5-feet to the north, "B" 5-feet to the southwest, and "C" 5-feet to the southeast, This is subject to change based on conditions observed in the field.

AOC - Area of Concern

AST - aboveground storage tank

B - soil boring

DTSC - Department of Toxic Substances Control

DTSC, 2006 - Interim Guidance Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-based Paint, Organochlorine Pesticides from termiticides, and Polychlorinated Biphenyls from Electrical Transformers (Revised June 9, 2006)

DTSC, 2008 - Interim Guidance for Sampling Agricultural Properties (Third Revision)

EPA - United States Environmental Protection Agency

ft, bgs - feet below ground surface

PAHs - polycyclic aromatic hydrocarbons

PCBs - polychlorinated biphenyls

PLM - polarized light microscopy

OCPs - organochlorine pesticides

SCAQMD - South Coast Air Quality Management District

SV - soil vapor

TPH - total petroleum hydrocarbons

TPH-g/d/o - TPH-gasoline/diesel/oil

UST - underground storage tank

VOCs - volatile organic compounds

Table 2 – Soil S	Table 2 – Soil Sample Analytical Results – Metals EPA Method 6010B/7471A (mg/kg)																						
											EPA I	Method 6010	B/7471A (mg/k	kg)									
Sample ID	Date Sampled	Antimony	Arsenic (TTLC)	Arsenic (STLC) (mg/l)	Arsenic (TCLP) (mg/l)) Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent (µg/kg)	Cobalt	Copper	Lead (TTLC)	Lead (STLC) (mg/l)	Lead (TCLP) (mg/l)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B1-0.5	2/18/2023	NA	ND<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B2-0.5	2/18/2023	ND<2.0	ND<2.0	NA	NA	84	ND<0.5	ND<0.5	12	ND<0.4	6.9	9.7	17	NA	NA	0.22	ND<1.0	7.1	ND<4.8	ND<0.5	ND<2.0	28	48
B2-N-0.5	4/3/2023	NA	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3-0.5	2/18/2023	ND<2.0	52	2.5	NA	92	ND<0.5	1.6	13	ND<0.4	7.8	12	26	NA	NA	ND<0.10	ND<1.0	7.7	ND<4.8	ND<0.5	ND<2.0	31	66
B3-2.5	2/18/2023	NA ND 3.0	ND<2.0	NA F2	NA 22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-0.5 B4-2.5	2/18/2023 2/18/2023	ND<2.0 NA	700 130	53 7.0	22	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
B4-2.3	4/3/2023	NA	3.9	NA	NA	NA	NA	NA NA	NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-E-0.5	4/3/2023	NA	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-E-2.5	4/3/2023	NA	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-E2-0.5	4/3/2023	NA	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-W-0.5	4/3/2023	NA	720	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-W-2.5	4/3/2023	NA	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-W2-0.5	4/3/2023	NA	180	11	4.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-W3-0.5	5/6/2023	NA	53	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-N-0.5	4/3/2023	NA	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B5-0.5	2/18/2023	ND<2.0	ND<2.0	NA	NA	100	ND<0.5	ND<0.5	16	ND<0.4	10	14	6	NA	NA	ND<0.10	ND<1.0	9.6	ND<4.8	ND<0.5	ND<2.0	39	NA
B6-0.5	2/18/2023	NA	ND<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B7-0.5	2/18/2023	NA	ND<2.0	NA	NA	NA 	NA	NA	NA	NA	NA 	NA	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B8-0.5	2/18/2023	ND<2.0	ND<2.0	NA	NA	77	ND<0.5	ND<0.5	11	ND<0.4	7.2	9.4	4.8	NA	NA	ND<0.10	ND<1.0	6.6	ND<4.8	ND<0.5	ND<2.0	27	39
B9-0.5 B10-0.5	2/18/2023 2/18/2023	ND<2.0 NA	ND<2.0 2.6	NA NA	NA NA	74 NA	ND<0.5 NA	ND<0.5 NA	9 NA	ND<0.4 NA	6.3 NA	NA	9.1 91	NA 3.6	NA NA	ND<0.10 NA	ND<1.0 NA	5.9 NA	ND<4.8 NA	ND<0.5 NA	ND<2.0 NA	23 NA	39 NA
B10-0.5	2/18/2023	NA NA	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA	NA	NA NA	4.3	NA	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA	NA NA
B11-0.5	2/18/2023	ND<2.0	6.8	NA	NA	ND<1.0	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	NA	55	1.8	NA	ND<0.10	NA	NA	NA	NA	NA	NA	NA
B11-2.5	2/18/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B12-0.5	2/18/2023	ND<2.0	ND<2.0	NA	NA	70	ND<0.5	ND<0.5	10	ND<0.4	6.7	9.2	18	ND<0.1	NA	ND<0.10	ND<1.0	6.4	ND<4.8	ND<0.5	ND<2.0	26	42
B13-0.5	2/18/2023	ND<2.0	3.2	NA	NA	ND<1.0	ND<0.5	ND<0.5	ND<0.5	NA	ND<0.5	NA	53	1.6	NA	ND<0.10	NA	NA	NA	NA	NA	NA	NA
B13-2.5	2/18/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B14-0.5	2/18/2023	ND<2.0	28	NA	NA	110	ND<0.5	1.2	19	ND<0.4	9.1	18	32	ND<0.1	NA	ND<0.10	ND<1.0	12	ND<4.8	ND<0.5	ND<2.0	36	110
B14-2.5	2/18/2023	NA	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B14-E-0.5	4/3/2023	NA	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B14-S-0.5	4/3/2023	NA	7.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B15-0.5	2/18/2023	ND<2.0	5.9	NA	NA	100	ND<0.5	ND<0.5	19	ND<0.4	9.6	16	24	ND<0.1	NA	ND<0.10	ND<1.0	13	ND<4.8	ND<0.5	ND<2.0	39	79
B16-0.5	2/18/2023	NA	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	92	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
B16-2.5 B17-0.5	2/18/2023 2/18/2023	NA NA	NA 6.8	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	6.1	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
B17-0.5	2/18/2023	NA ND<2.0	6.8 ND<2.0	NA NA	NA NA	110	ND<0.5	ND<0.5	18	ND<0.4	NA 8.3	13	36	NA ND<0.1	NA NA	NA ND<0.10	ND<1.0	9.2	ND<4.8	ND<0.5	ND<2.0	NA 34	90
B19-0.5	2/20/2023	ND<2.0	2.4	NA NA	NA NA	NA	ND<0.5	ND<0.5	NA	NA NA	o.s NA	NA	63	1.4	NA NA	NA NA	NA NA	9.2 NA	ND<4.6	NA	ND<2.0	NA	NA
B20-0.5	2/20/2023	ND<2.0	3.2	NA	NA	62	ND<0.5	ND<0.5	13	ND<0.4	7	12	18	NA	NA	ND<0.10	ND<1	11	ND<4.8	ND<0.5	ND<2.0	25	75
B20-W-0.5	4/3/2023	NA	ND<2.0	NA	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	NA	NA NA	NA	NA
B20-E-0.5	4/3/2023	NA	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B21-0.5	2/20/2023	NA	38	NA	NA	NA	NA	NA	NA	NA	NA	NA	42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B21-2.5	2/20/2023	NA	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B21-W-0.5	4/3/2023	NA	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B22-0.5	2/18/2023	ND<2.0	64	2.8	NA	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B22-2.5	2/18/2023	NA	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B23-0.5	2/20/2023	ND<2.0	ND<2.0	NA	NA	55	ND<0.5	ND<0.5	7.1	ND<0.4	5	11	38	NA	NA	0.24	ND<1.0	5.9	ND<4.8	ND<0.5	ND<2.0	20	54

Table 2 – Soil Sample Analytical Results – Metals																							
											EPA I	Method 6010	B/7471A (mg/k	(g)									
Sample ID	Date Sampled	Antimony	Arsenic (TTLC)	Arsenic (STLC) (mg/l)	Arsenic (TCLP) (mg/l)	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent (µg/kg)	Cobalt	Copper	Lead (TTLC)	Lead (STLC) (mg/l)	Lead (TCLP) (mg/l)	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B24-0.5	2/20/2023	NA	ND<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	66	2.8	NA	ND<0.10	NA	NA	NA	NA	NA	NA	NA
B25-0.5	2/20/2023	ND<2.0	3.6	NA	NA	86	ND<0.5	ND<0.5	15	ND<0.4	8.1	14	21	NA	NA	0.11	ND<1.0	9.8	ND<4.8	ND<0.5	ND<2.0	32	56
B26-0.5	2/20/2023	ND<2.0	2.8	NA	NA	83	ND<0.5	ND<0.5	15	0.23 J	18	18	34	NA	NA	ND<1.0	ND<1.0	10	ND<4.8	ND<0.5	ND<2.0	30	98
B27-0.5	2/20/2023	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B28-0.5	2/20/2023	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA NA	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B29-0.5 B30-0.5	2/20/2023	NA NA	2 ND<2.0	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	34 11	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
B32-2.5	2/20/2023	ND<2.0	ND<2.0	NA	NA	130	ND<0.5	ND<0.5	19	NA NA	12	19	6	NA NA	NA NA	0.11	ND<1.0	12	ND<4.8	ND<0.5	ND<2.0	44	60
B32-5	2/20/2023	ND<2.0	ND<2.0	NA	NA	130	ND<0.5	ND<0.5	19	NA	13	17	4.6	NA	NA	0.15	ND<1.0	12	ND<4.8	ND<0.5	ND<2.0	49	64
B33-2.5	2/20/2023	ND<2.0	3.9	NA	NA	160	0.58	ND<0.5	24	NA	16	23	6.7	NA	NA	0.11	ND<1.0	17	ND<4.8	ND<0.5	ND<2.0	55	77
B33-5	2/20/2023	ND<2.0	ND<2.0	NA	NA	150	0.57	ND<0.5	22	NA	15	22	5.3	NA	NA	ND<1.0	ND<1.0	15	ND<4.8	ND<0.5	ND<2.0	52	71
B34-2.5 ¹	2/20/2023	ND<2.5	ND<2.0	NA	NA	140	ND<0.50	ND<0.50	19	NA	12	18	24	NA	NA	0.12	ND<1.0	12	ND<4.8	ND<0.50	ND<0.20	41	120
B34-2.5	4/5/2023	ND<2.0	2.4	NA	NA	190	ND<0.5	ND<0.5	12	NA	7.3	17	230	11	0.19	0.11	ND<1.0	8.0	ND<4.8	ND<0.5	ND<2.0	27	210
B34-5	4/5/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B34-10	4/5/2023	ND<2.0	ND<2.0	NA	NA	71	ND<0.5	ND<0.5	10	NA	7.7	11	3.3	NA	NA	ND<0.10	ND<1.0	6.9	ND<4.8	ND<0.5	ND<2.0	28	35
B34-NW-2.5	2/20/2023	ND<2.0	ND<2.0	NA	NA	140	ND<0.5	ND<0.5	19	NA	12	18	24	NA	NA	NA	ND<1.0	12	ND<4.8	ND<0.5	ND<2.0	41	120
B34-NE-0.5	5/6/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B34-NE-2.5	5/6/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B34-NE2-2.5	5/6/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	94	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
B34-SW-0.5 B34-SW-2.5	5/6/2023 5/6/2023	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	17 5.8	NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
B34-SW-2.5	4/5/2023	NA ND<2.0	ND<2.0	NA NA	NA NA	NA 85	ND<0.5	ND<0.5	13	NA NA	8.3	12	3.4	NA NA	NA NA	0.11	ND<1.0	8.5	ND<4.8	ND<0.5	ND<2.0	32	45
B35-10	4/5/2023	ND<2.0	ND<2.0	NA	NA	71	ND<0.5	ND<0.5	10	NA	7.0	11	2.4	NA	NA	0.11	ND<1.0	6.4	ND<4.8	ND<0.5	ND<2.0	26	35
B36-0.5	4/5/2023	ND<2.0	2.1	NA	NA	88	ND<0.5	ND<0.5	13	NA	7.6	19	15	NA	NA	0.18	ND<1.0	7.9	ND<4.8	ND<0.5	ND<2.0	31	46
B36-2.5	4/5/2023	ND<2.0	2.2	NA	NA	110	ND<0.5	ND<0.5	15	NA	10	15	5.6	NA	NA	0.20	ND<1.0	11	ND<4.8	ND<0.5	ND<2.0	39	51
B37-0.5	4/5/2023	ND<2.0	2.3	NA	NA	100	ND<0.5	ND<0.5	14	NA	9.4	13	13	NA	NA	0.14	ND<1.0	9.2	ND<4.8	ND<0.5	ND<2.0	36	62
B37-2.5	4/5/2023	ND<2.0	ND<2.0	NA	NA	120	ND<0.5	ND<0.5	18	NA	12	16	4.1	NA	NA	0.13	ND<1.0	12	ND<4.8	ND<0.5	ND<2.0	46	56
B37-5	4/5/2023	ND<2.0	ND<2.0	NA	NA	94	ND<0.5	ND<0.5	14	NA	9.8	13	3.9	NA	NA	0.11	ND<1.0	9.6	ND<4.8	ND<0.5	ND<2.0	37	46
B37-10	4/5/2023	ND<2.0	3.9	NA	NA	150	0.76	ND<0.5	21	NA	14	24	6.3	NA	NA	0.14	ND<1.0	15	ND<4.8	ND<0.5	ND<2.0	53	67
B37-15	4/5/2023	ND<2.0	ND<2.0	NA	NA	80	ND<0.5	ND<0.5	13	NA	8.5	11	2.6	NA	NA	ND<0.10	ND<1.0	8.4	ND<4.8	ND<0.5	ND<2.0	34	41
B38-0.5	4/5/2023	ND<2.0	ND<2.0	NA	NA	110	ND<0.5	ND<0.5	15	NA	10	15	8.4	NA	NA	0.15	ND<1.0	10	ND<4.8	ND<0.5	ND<2.0	39	53
B38-2.5	4/5/2023	ND<2.0	ND<2.0	NA	NA	100	ND<0.5	ND<0.5	15	NA	10	14	6.9	NA	NA	0.18	ND<1.0	9.7	ND<4.8	ND<0.5	ND<2.0	40	51
B38-5	4/5/2023	ND<2.0	2.5	NA	NA	150	0.71	ND<0.5	23	NA	14	25	6.8	NA	NA	0.49	ND<1.0	16	ND<4.8	ND<0.5	ND<2.0	54	67
B38-10	4/5/2023	ND<2.0 ND<2.0	2.2 ND -2.0	NA	NA	85	ND<0.5	ND<0.5	12	NA	8.1	11	2.6	NA	NA	0.13	ND<1.0	7.5	ND<4.8	ND<0.5	ND<2.0	30	40
B38-15 B39-0.5	4/5/2023 4/5/2023	ND<2.0	ND<2.0 ND<2.0	NA NA	NA NA	82 100	ND<0.5 ND<0.5	ND<0.5 ND<0.5	14 15	NA NA	7.6 9.6	13 15	5.7 16	NA NA	NA NA	0.19	ND<1.0 ND<1.0	11 9.9	ND<4.8 ND<4.8	ND<0.5 ND<0.5	ND<2.0 ND<2.0	33 39	42 58
B39-0.5	4/5/2023	ND<2.0	ND<2.0	NA	NA	93	ND<0.5	ND<0.5	14	NA	7.8	11	6.9	NA	NA	0.11	ND<1.0	7.9	ND<4.8	ND<0.5	ND<2.0	32	46
B39-5	4/5/2023	ND<2.0	ND<2.0	NA NA	NA	150	ND<0.5	ND<0.5	16	NA NA	9.6	14	13	NA	NA	0.17	ND<1.0	10	ND<4.8	ND<0.5	ND<2.0	38	62
B39-10	4/5/2023	ND<2.0	ND<2.0	NA	NA	82	ND<0.5	ND<0.5	9.7	NA	7.3	9.3	2.1	NA	NA	0.17	ND<1.0	6.4	ND<4.8	ND<0.5	ND<2.0	26	40
B39-15	4/5/2023	ND<2.0	ND<2.0	NA	NA	49	ND<0.5	ND<0.5	5.6	NA	4.9	ND<5	1.4	NA	NA	ND<0.10	ND<1.0	4.1	ND<4.8	ND<0.5	ND<2.0	18	260
B40A-0.5	5/6/2023	NA	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B40-2.5	2/18/2023	NA	ND<2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B41A-0.5	5/6/2023	NA	89	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B41-2.5	2/18/2023	NA	2.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B42A-0.5	4/3/2023	NA	63	2.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B42A-2.5	4/3/2023	NA	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 2 – Soil	Sample Analyti	ical Results	- Metals																				
											EPAI	Method 6010E	3/7471A (mg/l	<g)< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></g)<>									
Sample ID	Date Sampled	Antimony	Arsenic (TTLC) Arsenic (STLC (mg/l)) Arsenic (TCLP) (mg/l)	Barium	Beryllium	Cadmium	Chromium	Chromium, Hexavalent (µg/kg)	Cobalt	Copper	Lead (TTLC)	Lead (STLC) (mg/l)	Lead (TCLP) (mg/l)) Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B44-0.5	4/3/2023	ND<2.0	3.1	NA	NA	130	ND<0.5	ND<0.5	20	NA	12	17	29	NA	NA	ND<0.10	ND<1.0	13	ND<4.8	ND<0.5	ND<2.0	42	100
B44-2.5	4/3/2023	ND<2.0	ND<2.0	NA	NA	130	ND<0.5	ND<0.5	18	NA	12	17	4.4	NA	NA	ND<0.10	ND<1.0	12	ND<4.8	ND<0.5	ND<2.0	42	62
B45-0.5	4/3/2023	ND<2.0	3.3	NA	NA	120	ND<0.5	0.56	13	NA	8.5	36	200	4.7	0.11	0.26	ND<1.0	14	ND<4.8	ND<0.5	ND<2.0	32	250
B45-2.5	4/3/2023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B45-15	4/3/2023	ND<2.0	ND<2.0	NA	NA	72	ND<0.5	ND<0.5	9	NA	7.6	7.9	2	NA	NA	ND<0.10	ND<1.0	6.3	ND<4.8	ND<0.5	ND<2.0	25	36
B43-0.5	4/5/2023	ND<2.0	ND<2.0	NA	NA	430	ND<0.5	ND<0.5	12	NA	7.7	11	7.1	NA	NA	0.15	ND<1.0	7.6	ND<4.8	ND<0.5	ND<2.0	32	50
B43-2.5	4/5/2023	ND<2.0	ND<2.0	NA	NA	110	ND<0.5	ND<0.5	13	NA	9.0	13	4.7	NA	NA	0.10	ND<1.0	8.7	ND<4.8	ND<0.5	ND<2.0	35	49
B43-5	4/5/2023	ND<2.0	2.5	NA	NA	130	0.59	ND<0.5	20	NA	13	20	4.2	NA	NA	0.19	ND<1.0	13	ND<4.8	ND<0.5	ND<2.0	52	62
B43-10	4/5/2023	ND<2.0	ND<2.0	NA	NA	95	ND<0.5	ND<0.5	12	NA	8.9	13	3.0	NA	NA	0.16	ND<1.0	8.1	ND<4.8	ND<0.5	ND<2.0	31	44
B43-15	4/5/2023	ND<2.0	2.0	NA	NA	110	0.54	ND<0.5	17	NA	12	19	4.2	NA	NA	0.11	ND<1.0	12	ND<4.8	ND<0.5	ND<2.0	45	56
B46-0.5	4/5/2023	ND<2.0	ND<2.0	NA	NA	100	ND<0.5	ND<0.5	15	NA	8.9	14	16	NA	NA	0.45	ND<1.0	9.3	ND<4.8	ND<0.5	ND<2.0	36	71
B46-2.5	4/5/2023	ND<2.0	ND<2.0	NA	NA	95	ND<0.5	ND<0.5	15	NA	9.5	13	8.6	NA	NA	0.14	ND<1.0	9.4	ND<4.8	ND<0.5	ND<2.0	38	52
B46-5	4/5/2023	ND<2.0	ND<2.0	NA	NA	88	ND<0.5	ND<0.5	14	NA	8.8	13	3.9	NA	NA	0.12	ND<1.0	8.6	ND<4.8	ND<0.5	ND<2.0	34	44
B46-10	4/5/2023	ND<2.0	ND<2.0	NA	NA	84	ND<0.5	ND<0.5	12	NA	8.6	12	3.1	NA	NA	ND<0.10	ND<1.0	8.3	ND<4.8	ND<0.5	ND<2.0	32	43
S1	4/3/2023	NA	3.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S2	4/3/2023	NA	31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S3	4/3/2023	NA	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S4	4/3/2023	NA	24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
S5	4/3/2023	NA	6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Regulatory Screenin																							
EPA RSLs (Residentia	al Soil)	31*	0.68	NL	NL	15,000*	160*	7.1*	NL	6.3	23*	3,100*	400	NL	NL	11	390*	1,500*	390*	390*	0.78	390*	23,000*
DTSC HERO HHRA (I	Residential Soil)	NL	0.11	NL	NL	NL	16*	910	NL	NL	NL	NL	80*	NL	NL	1.0	NL	820*	NL	NL	NL	NL	NL
DTSC Acceptable Cle	an Up Levels	NL	12	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
Hazardous Waste Cr	iteria	500	500			10.000	75	100	0.500	500		0.500					0.500			500	700	0.400	
TTLC (mg/kg) 10 X STLC (mg/kg)		500 150	500 50			10,000	75 7.5	100 10	2,500 50	500 50	8,000	2,500 250	1,000 50			20	3,500 3,500	2,000 200	100 10	500 50	700 70	2,400 240	5,000 2,500
20 X TCLP (mg/kg)			100			2000	7.5	20	100			250	100			4	3,300	200	20	100			2,300
STLC (mg/l)		15	5	5		100	0.75	1	5	5	80	25	5	5		0.2	350	20	1	5	7	24	250
TCLP (mg/l)		NL	5		5	100	NL	1	5	NL	NL	NL	5		5	0.2	NL	NL	1	5	NL	NL	NL

-- - not applicable

bold indicates exceedance of regulatory screening level(s)

DTSC HERO HHRA - Department of Toxic Substances Control Human and Ecological Risk Office Human Health Risk Assessment, Note 3, Recommended Screening Levels for Soil (June 2020)

EPA - United States Environmental Protection Agency

ID - Identification

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

mg/kg - milligrams per kilogram

mg/l - milligrams per liter

NA - not analyzed

ND< - not detected above the laboratory reporting limit

NL - not listed

RSLs - United States Environmental Protection Agency Regional Screening Levels (May 2023)

STLC - soluble threshold limit concentration

TCLP - toxicity characteristic leaching procedure

TTLC - total threshold limit concentration

μg/kg - micrograms per kilogram

^{* -} non-cancer endpoint

^{1 -} Two co-located samples were collected with corresponding ID of B34-2.5 due to refusal encouuntered in the original boring B34 on February 20, 2023. The report text refers to the second B34 sample collected on April 5, 2023.

B2-0.5 B3-0.5 B5-0.5	Date Sample Collected				VOC's EPA 8260B	PAHs EPA 8270C	C Asbestos PLM
B3-0.5		DROs	MROs	GROs	- VOC S EPA 8260В (µg/kg)	PAHS EPA 82/0C (μg/kg)	(percentage)
	2/18/2023	NA	NA	NA	NA	ND	ND
B5-0.5	2/18/2023	NA	NA	NA	NA	ND	ND
	2/18/2023	NA	NA	NA	NA	ND	ND
B8-0.5	2/18/2023	NA	NA	NA	NA	ND	ND
B9-0.5	2/18/2023	NA	NA	NA	NA	ND	ND
B12-0.5	2/18/2023	NA	NA	NA	NA	ND	ND
B14-0.5	2/18/2023	NA	NA	NA	NA	ND	ND
B15-0.5	2/18/2023	NA	NA	NA	NA	ND	ND
B18-0.5	2/18/2023	NA	NA	NA	NA	ND	ND
B20-0.5	2/20/2023	ND<10	ND<50	ND<0.2	NA	ND	ND<0.1%
B20-2.5	2/20/2023	NA	NA	NA	NA	NA	ND<0.1%
B23-0.5	2/20/2023	NA	NA	NA	NA	ND	ND
B25-0.5	2/20/2023	NA	NA	NA	NA	ND	ND
B26-0.5	2/20/2023	NA	NA	NA	NA	ND	ND
B32-2.5	2/20/2023	ND<10	120	ND<0.2	ND	NA	NA
B32-2.5	2/20/2023	ND<10	ND<50	ND<0.2	ND	NA NA	NA
B33-2.5	2/20/2023	ND<10		ND<0.2	ND		NA
			ND<50			NA	
B33-5	2/20/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B34-2.5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B34-10	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B34-W-2.5	2/20/2023	NA	NA	NA	ND	NA	NA
B35-2.5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B35-10	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B36-0.5	4/5/2023	18	78	ND<0.2	ND	ND	NA
B36-2.5	4/5/2023	ND<10	ND<50	ND<0.2	ND	ND	NA
B37-0.5	4/5/2023	ND<10	ND<50	ND<0.2	NA	NA	NA
B37-2.5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B37-5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B37-10	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B37-15	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B38-0.5	4/5/2023	ND<10	ND<50	ND<0.2	NA	NA	NA
B38-2.5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B38-5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B38-10	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B38-15	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B39-0.5	4/5/2023	ND<10	ND<50	ND<0.2	NA	NA	NA
B39-2.5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B39-5	4/5/2023	12	ND<50	ND<0.2	ND	NA	NA
B39-10	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B39-15	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B40-2.5	2/18/2023	ND<10	140	ND<0.2	ND	NA	NA
B41-2.5	2/18/2023	14	75	ND<0.2	ND	NA	NA
B42-2.5	2/18/2023	ND<10	67	ND<0.2	ND	NA	NA
B43-0.5	4/5/2023	ND<10	ND<50	ND<0.2	NA	NA	NA
B43-0.5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B43-2.5	4/5/2023	ND<10			ND		NA
			ND<50	ND<0.2		NA NA	
B43-10 B43-15	4/5/2023 4/5/2023	ND<10 ND<10	ND<50 ND<50	ND<0.2 ND<0.2	ND ND	NA NA	NA NA

Table 3 – Soil Sample Analytical Results – TPHs, VOCs, PAHs, Asbestos

Sample	Date Sample	TPHs EP	A Method 8015E	(mg/kg)	VOC's EPA 8260B	PAHs EPA 8270C	Asbestos PLM
ID	Collected	DROs	MROs	GROs	(μg/kg)	(μg/kg)	(percentage)
B44-0.5	4/3/2023	ND<10	ND<50	0.71	ND	NA	NA
B44-2.5	4/3/2023	ND<10	ND<50	0.58	ND	NA	NA
B45-0.5	4/3/2023	490	1,900	0.67	ND	NA	NA
B45-2.5	4/3/2023	ND<10	ND<50	NA	NA	NA	NA
B45-15	4/3/2023	ND<10	ND<50	0.67	ND	NA	NA
B46-0.5	4/5/2023	ND<10	ND<50	ND<0.2	NA	NA	NA
B46-2.5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B46-5	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
B46-10	4/5/2023	ND<10	ND<50	ND<0.2	ND	NA	NA
Regulatory Screening Levels (mg/kg)					(µg,	/kg)	(%)
EPA RSLs (Residential Soil)		97*	2,400*	82*	Various	Various	NL

bold indicates exceedance of regulatory screening level(s)

DROs - diesel range organics

EPA - United States Environmental Protection Agency

GROs - gasoline range organics

ID - Identification

mg/kg - milligrams per kilogram

MROs - motor oil range organics

NA - not analyzed

ND< - not detected above the laboratory reporting limit

NL - not listed

PAHs - polycyclic aromatic hydrocarbon

PLM - polarized light microscopy

RSLs - United States Environmental Protection Agency Regional Screening Levels (May 2023)

TPH - total petroleum hydrocarbons

VOCs - volatile organic compounds

µg/kg - micrograms per kilogram

^{* -} non-cancer endpoint

1 4510 1 00117	ilialytical ites	sults – OCPs & PCE	08			
Sample	Date Sample	OCPs by EPA Method		PCBs by EPA Met	thod 8082 (µg/kg)	
ID	Collected	8081A (µg/kg)	PCB-1016	PCB-1254	PCB-1260	Other PCBs
31-0.5	2/18/2023	NA	ND<25	ND<25	ND<25	ND
37-0.5	2/18/2023	NA	ND<25	ND<25	ND<25	ND
310-0.5	2/18/2023	NA	ND<25	ND<25	ND<25	ND
316-0.5	2/18/2023	NA	ND<25	ND<25	ND<25	ND
319-0.5	2/20/2023	NA	420	250	97	ND
321-0.5	2/20/2023	NA	ND<100	ND<100	ND<100	ND
322-0.5	2/18/2023	NA	ND<75	ND<75	ND<75	ND
323-0.5	2/20/2023	NA	ND<200	ND<200	ND<200	ND
324-0.5	2/20/2023	NA	ND<200	ND<200	ND<200	ND
327-0.5	2/20/2023	NA	ND<25	ND<25	ND<25	ND
328-0.5	2/20/2023	NA	ND<25	ND<25	ND<25	ND
329-0.5	2/20/2023	NA	ND<200	ND<200	ND<200	ND
331-0.5	2/20/2023	NA	ND<200	ND<200	ND<200	ND
332-2.5	2/20/2023	ND	NA	NA	NA	NA
332-5	2/20/2023	ND	NA	NA	NA	NA
333-2.5	2/20/2023	ND	NA	NA	NA	NA
333-5	2/20/2023	ND	NA	NA	NA	NA
334-2.5	4/5/2023	ND	NA	NA	NA	NA
334-10	4/5/2023	ND	NA	NA	NA	NA
334-W-2.5	2/20/2023	ND	NA	NA	NA	NA
335-2.5	4/5/2023	ND	NA	NA	NA	NA
335-10	4/5/2023	ND	NA	NA	NA	NA
337-0.5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
337-2.5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
337-5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
337-10	4/5/2023	NA	ND<25	ND<25	ND<25	ND
337-15	4/5/2023	NA	ND<25	ND<25	ND<25	ND
338-0.5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
338-2.5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
338-5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
338-10	4/5/2023	NA	ND<25	ND<25	ND<25	ND
338-15	4/5/2023	NA	ND<25	ND<25	ND<25	ND
339-0.5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
339-2.5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
339-5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
339-10	4/5/2023	NA	ND<25	ND<25	ND<25	ND
339-15	4/5/2023	NA	ND<25	ND<25	ND<25	ND
343-0.5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
343-2.5	4/5/2023	NA	ND<25	ND<25	ND<25	ND
343-5	4/5/2023	NA NA	ND<25	ND<25	ND<25	ND

Table 4 – Soil A	Table 4 – Soil Analytical Results – OCPs & PCBs									
Sample	Date Sample	OCPs by EPA Method		PCBs by EPA Me	thod 8082 (µg/kg)					
ID	Collected	8081A (µg/kg)	PCB-1016	PCB-1254	PCB-1260	Other PCBs				
B43-10	4/5/2023	NA	ND<25	ND<25	ND<25	ND				
B43-15 4/5/2023		NA	ND<25	ND<25	ND<25	ND				
Composite 1 2/18/2023		ND	NA	NA	NA	NA				
Composite 2	2/18/2023	ND	NA	NA	NA	NA				
Composite 3	2/18/2023	ND	NA	NA	NA	NA				
Composite 4	2/18/2023	ND	NA	NA	NA	NA				
Composite 5	2/18/2023	ND	NA	NA	NA	NA				
Composite 6	2/18/2023	ND	NA	NA	NA	NA				
Composite 7	2/18/2023	ND	NA	NA	NA	NA				
Composite 8	2/18/2023	ND	NA	NA	NA	NA				
Composite 9	2/18/2023	ND	NA	NA	NA	NA				
Composite 10	2/18/2023	ND	NA	NA	NA	NA				
Composite 11	2/18/2023	ND	NA	NA	NA	NA				
Composite 12	2/18/2023	ND	NA	NA	NA	NA				
Regulatory Screening L	.evels (µg/kg)									
EPA RSLs (Residential S	oil)	Various	4,100*	240	240	Various				
DTSC HERO HHRA (Res	sidential Soil)	Various	4,000*	NL	NL	Various				

bold indicates result in exceedance of screening level

DTSC HERO HHRA - Department of Toxic Substances Control Human and Ecological Risk Office Human Health Risk Assessment, Note 3,

Recommended Screening Levels, June 2020

EPA - United States Environmental Protection Agency

ID - identification

NA - not analyzed

ND< - not detected above the laboratory reporting limit

NL - not listed

OCPs - organochlorine pesticides

PCBs - polychlorinated biphenyls

RSLs - United States Environmental Protection Agency Regional Screening Levels (May 2023)

µg/kg - micrograms per kilogram

^{*} non-cancer endpoint

Table 5 – Soil Sample Analytical Results – Dioxins and Furans

		EPA Method SW846 8290A (pg/g)								
Sample ID	Date Sampled	1,2,3,7,8,9- HxCDF	1,2,3,4,6,7,8- HpCDD	1,2,3,4,6,7,8- HpCDF	OCDD	OCDF	Other Dioxins & Furans			
B36-0.5	4/5/2023	0.13 J,B,q	0.46 J,B	0.29 J,B,q	2.3 J,B	0.47 J,B,q	ND			
Regulatory Screening Levels (pg/g)										
EPA RSLs (Residential Soil)		48	480	480	16000	16,000	Various			
DTSC HERO HHRA (F	Residential Soil)	NL	NL	NL	NL	NL	Various			

Notes:

B - compound was found in the blank and sample

bold indicates exceedance of regulatory screening level(s)

DTSC HERO HHRA - Department of Toxic Substances Control Human and Ecological Risk Office Human Health Risk Assessment, Note 3, Recommended Screening Levels for Soil (June 2020)

EPA - United States Environmental Protection Agency

ID - Identification

J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value

pg/g - picograms per gram

ND - not detected above the laboratory reporting limit

NL - not listed

q - the reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

RSLs - United States Environmental Protection Agency Regional Screening Levels (May 2023)

Table 6 - Soil Vapor Sampling Analytical Results - VOCs

					EPA Method 8	3260B (µ g/m³)			
Sample ID	Date Sampled	1,2,4- Trimethylbenzene	Ethylbenzene	Freon 12	Tetrachloroethene	Toluene	m,p-Xylenes	o-Xylene	Other VOCs
SV-1-5'	4/6/2023	9	13	32	27	46	52	15	ND
SV-1-15'	4/6/2023	22	31	44	20	92	140	41	ND
SV-1-15' REP	4/6/2023	20	32	42	26	82	135	39	ND
SV-2-5'	4/6/2023	ND<8	ND<8	ND<16	28	39	25	8	ND
SV-2-15'	4/6/2023	11	ND<8	18	26	22	26	ND<8	ND
SV-3-5'	4/6/2023	ND<8	10	ND<16	16	59	37	12	ND
SV-3-15'	4/6/2023	ND<8	ND<8	ND<16	26	29	20	ND<8	ND
SV-4-5'	4/6/2023	ND<8	ND<8	ND<16	30	22	ND<16	ND<8	ND
SV-4-15'	4/6/2023	10	14	ND<16	23	57	50	16	ND
SV-5-5'	4/6/2023	14	15	69	38	44	73	22	ND
SV-5-15'	4/6/2023	16	19	82	91	60	71	21	ND
SV-6-5'	4/6/2023	10	12	ND<16	87	51	49	15	ND
SV-6-15'	4/6/2023	10	ND<8	ND<16	64	33	34	11	ND
Regulatory Screening Leve	els (µg/m³)								
Modified EPA RSLs (Resider	ntial Air) 1	2,100*	36.7	3,333*	367	173,333*	3,333*	3,333*	Various
Modified DTSC HERO HHRA	A (Residential Air) 1	NL	NL	NL	15.3	10,333*	NL	NL	Various

bold indicates exceedance of modified EPA RSLs and DTSC HERO HHRA for residential air

DTSC HERO HHRA - Department of Toxic Substances Control Human and Ecological Risk Office Human Health Risk Assessment, Note 3, Recommended Screening Levels for Soil (June 2020-Revised May 2022)

EPA - United States Environmental Protection Agency

ID - Identification

ND< - not detected above the laboratory reporting limit

NL - not listed

¹Modified EPA RSLs and DTSC HERO HHRA using attenuation factor of 0.03

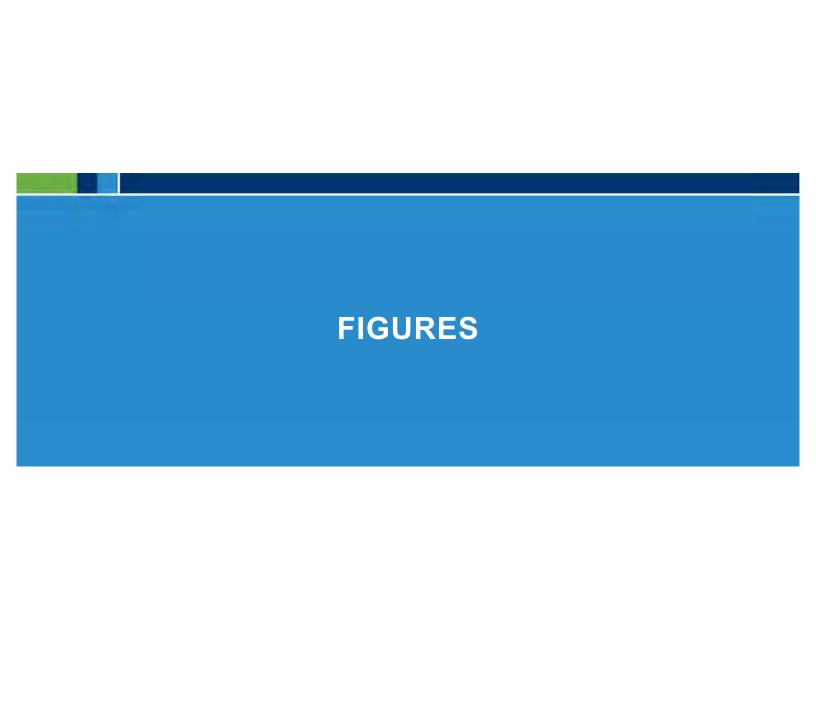
REP - replicate

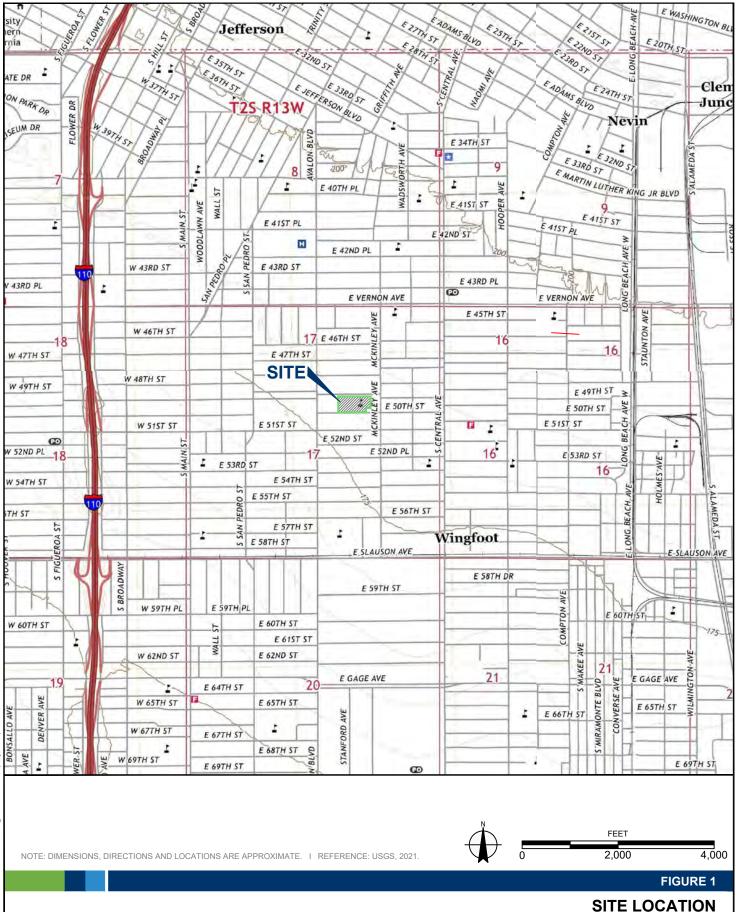
RSLs - United States Environmental Protection Agency Regional Screening Levels (May 2023)

μg/m³ - micrograms per cubic meter

VOCs - Volatile Organic Compounds

^{* -} non-cancer endpoint





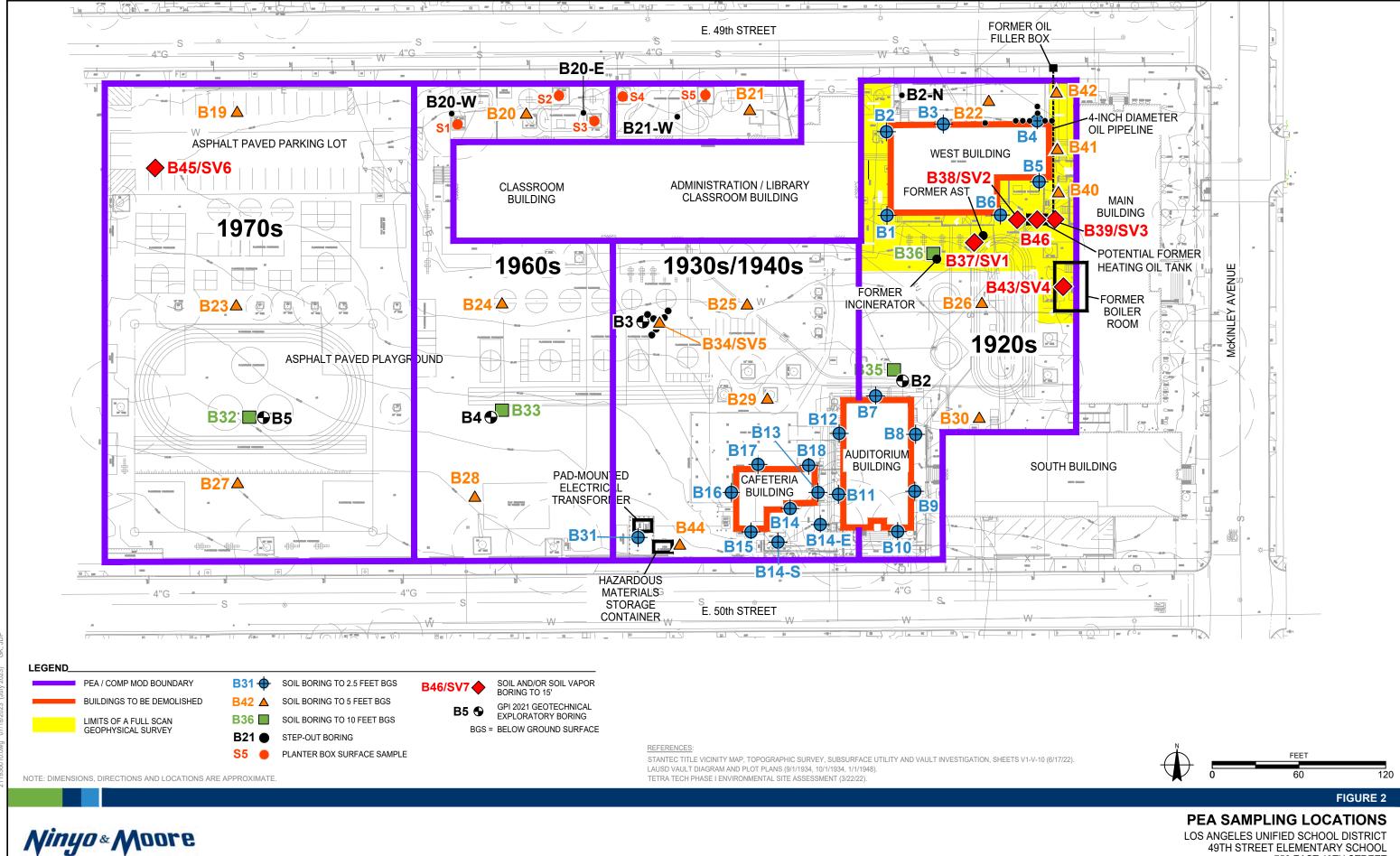
Ninyo & Moore **Geotechnical & Environmental Sciences Consultants**

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(July 2023)

07/18/2023

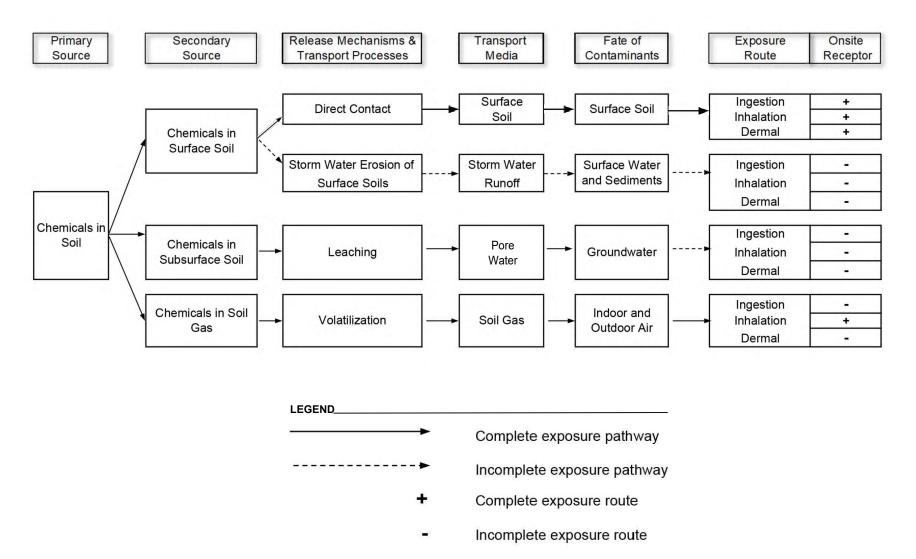
LOS ANGELES UNIFIED SCHOOL DISTRICT 49TH STREET ELEMENTARY SCHOOL 750 EAST 49TH STREET LOS ANGELES, CALIFORNIA 211936010 I 7/23



Geotechnical & Environmental Sciences Consultants

LOS ANGELES UNIFIED SCHOOL DISTRICT 49TH STREET ELEMENTARY SCHOOL 750 EAST 49TH STREET LOS ANGELES, CALIFORNIA

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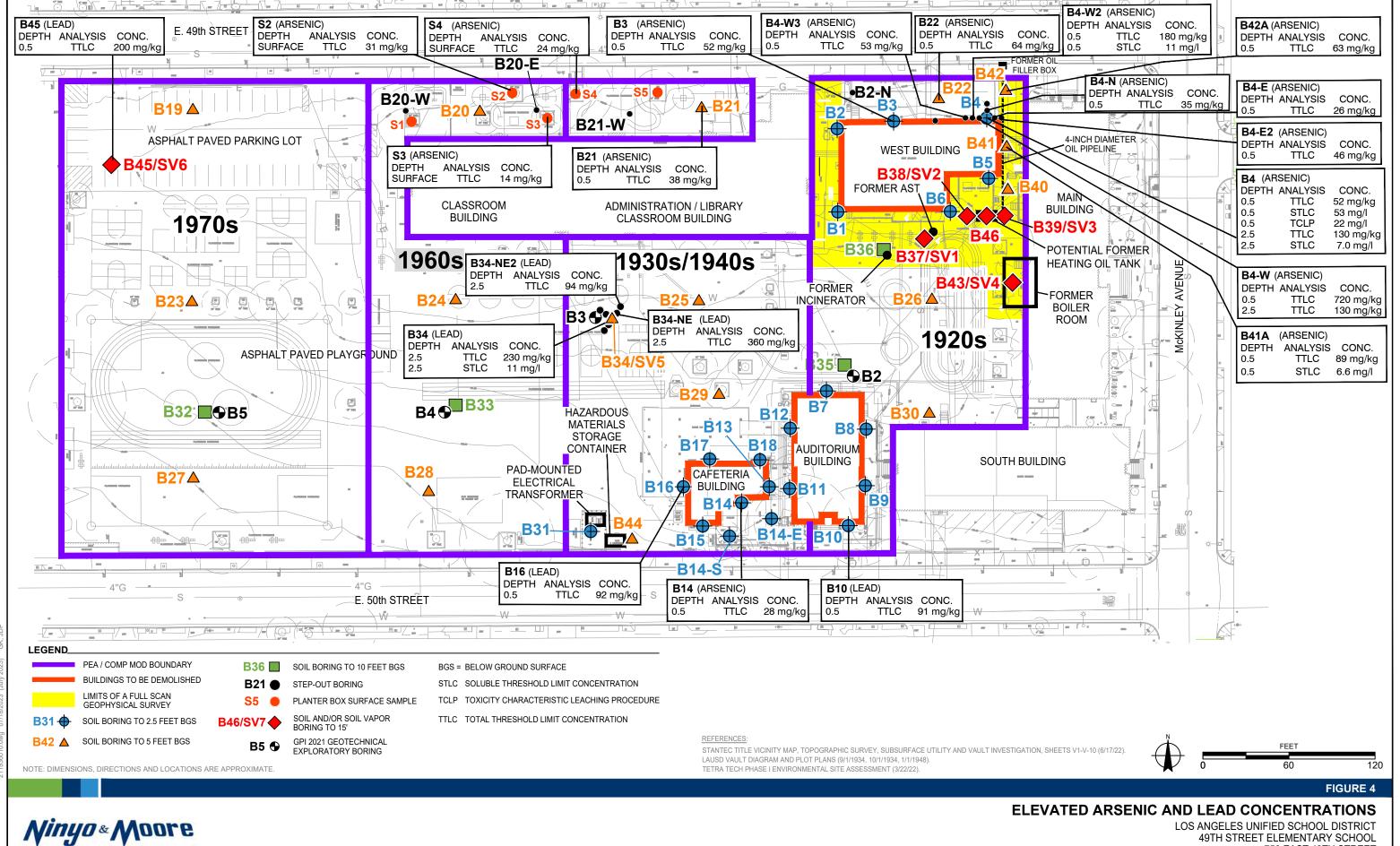


NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

FIGURE 3

CONCEPTUAL SITE MODEL

LOS ANGELES UNIFIED SCHOOL DISTRICT 49TH STREET ELEMENTARY SCHOOL 750 EAST 49TH STREET LOS ANGELES, CALIFORNIA



Geotechnical & Environmental Sciences Consultants

LOS ANGELES UNIFIED SCHOOL DISTRICT 49TH STREET ELEMENTARY SCHOOL 750 EAST 49TH STREET LOS ANGELES, CALIFORNIA

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APPENDIX A Field Notifications

Los Angeles Unified School District

Office of Environmental Health and Safety

ALBERTO M. CARVALHO
Superintendent

CARLOS A. TORRES

Director, Environmental Health and Safety

JENNIFER FLORES

Deputy Director, Environmental Health and Safety

February 1, 2023

TO: Neighbors and Community Members of the

49th Street Elementary School

FROM: Los Angeles Unified School District

Office of Environmental Health and Safety

REGARDING: Preliminary Environmental Assessment

49th Street Elementary School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice for a Preliminary Environmental Assessment (PEA) that will be conducted within the boundaries of the 49th Street Elementary School, located at 750 East 49th Street, Los Angeles, California 90011. This PEA is one of the first steps for the overall comprehensive modernization project planned for the elementary school.

A licensed contractor, working on behalf of LAUSD, will perform the PEA field activities under the oversight of the LAUSD-OEHS. The PEA will consist of a subsurface investigation around the footprints of existing buildings that will be removed, where historical structures were present, or where other recognized environmental concerns were identified. Soil and soil vapor samples collected will be analyzed for various chemicals of concern. If necessary, soil cleanup will be performed prior to construction activities to protect students, faculty, and staff.

Fieldwork will be conducted intermittently and is anticipated to be completed over multiple days between February and December, 2023. Intrusive fieldwork, such as coring of the concrete or asphalt pavement and soil sampling will only be conducted on school holidays or weekends. Fieldwork will be conducted at the Site between the hours of 7AM and 5 PM.

The results of the PEA investigation will be submitted to LAUSD-OEHS in a report for review. The report will include an assessment of whether any of the above listed compounds are present in soil and/or soil vapor at concentrations that would require further delineation, or if a response action will be necessary before the Site is cleared for construction activities. When the OEHS's review is complete, OEHS will issue an official determination with regard to the assessment.

If you have any questions concerning the upcoming environmental investigation or other related activities for the proposed project, please contact Filmon Tesfaslasie, LAUSD-OEHS, Site Assessment Project Manager at (213) 241-4674 (email at cp-f.tesfaslasie@lausd.net).

Los Angeles Unified School District

Office of Environmental Health and Safety

ALBERTO M. CARVALHO
Superintendent

CARLOS A. TORRES

Director, Environmental Health and Safety

JENNIFER FLORES

Deputy Director, Environmental Health and Safety

1 de Febrero de 2023

PARA: Vecinos y Miembros de la Comunidad de la

Escuela Primaria de la Calle 49

DE: Los Angeles Unified School District

Office of Environmental Health and Safety

EN LO QUE Evaluación Ambiental Preliminar

RESPECTA: 49th Street Elementary School, Los Angeles, California

El Los Angeles Unified School District (LAUSD) – Office of Environmental Health and Safety (OEHS) le gustaría avisarle con antelación de una Evaluación Ambiental Preliminar (EAP) que se llevará acabo dentro de los límites del 49th Street Elementary School, ubicado en 750 East 49th Street, Los Angeles, California 90011 (en lo sucesivo se denominará como "el Sitio"). Esta EAP es uno de los primeros pasos para el Proyecto general de modernización integral planeado para la escuela primaria.

Un contratista con licencia, trabajando en nombre del LAUSD llevará a cabo las actividades de campo de la EAP bajo la supervisión del LAUSD-OEHS. La EAP consistirá en una investigación del subsuelo alrededor de las huellas del los edificios existentes que se eliminarán, donde estuvieran presentes estructuras históricas o donde se identificaron otras preocupaciones ambientales reconocidas. Muestras de suelo y vapor de suelo se analizarán por varios químicos en cuestión. Si es necesario, la limpieza del suelo se realizará antes de las actividades de construccion para proteger a los estudiantes, el profesorado, y el personal.

El trabajo de campo se llevará a cabo de forma intermitente y se prevé que se complete durante varios dias entre Febrero y Diciembre del 2023. El trabajo de campo intrusive, por ejemplo la perforacion de pavimento de hormigón o asfalto y el muestreo del suelo, solo se llevarán a cabo en vacaciones escolares o fines de semana. El trabajo de campo se llevará a cabo en el Sitio entre las 7 A.M. y las 5 P.M.

Los resultados de la investigación del EAP se presentará a LAUSD-OEHS en un informe para su revisión. El informe incluirá una evaluación de si alguno de los compuestos enumerados anteriormente está presente en el suelo y/o en el vapor del suelo a concentraciones que requerirán una mayor delineación, o si será necesaria una acción de respuesta antes de que el Sitio sea autorizado para actividades de construcción. Cuando se complete la revision de la OEHS, la OEHS emitirá una determinación official con respecto a la evaluación.

Si tiene alguna pregunta sobre la próxima investigación ambiental o otras actividades relacionadas con el proyecto propuesto, póngase en contacto con Filmon Tesfaslasie, LAUSD-OEHS, Gerente de Proyecto de Evaluación del Sitio al (213) 241-4674 (correo electrónico: cp-f.tesfaslasie@lausd.net).

APPENDIX B Photographs



Photograph 1: View of site, looking west from eastern portion of the site.



Photograph 2: View of parking lot, in the northwestern portion of the site.

PHOTOGRAPHS

 $750~{\rm EAST}~49^{\rm TH}~{\rm STREET}$ LOS ANGELES, CALIFORNIA





Photograph 3: View of boring location B22, in the northeastern portion of the site.



Photograph 4: View of backfilled and patched original and co-located boring for B40.

PHOTOGRAPHS

750 EAST 49TH STREET LOS ANGELES, CALIFORNIA





Photograph 5: View of a typical backfilled and patched borings on-site.



Photograph 6: View of backfilled and patched step-out locations for the original boring B34.

PHOTOGRAPHS

 $750~{\rm EAST}~49^{\rm TH}~{\rm STREET}$ LOS ANGELES, CALIFORNIA



Photograph 7: View of soil screening activities at boring B23



Photograph 8: View of soil vapor purging and sampling activities at boring B38/SV2



PHOTOGRAPHS

 $750~{\rm EAST}~49^{\rm TH}~{\rm STREET}$ LOS ANGELES, CALIFORNIA





Photograph 9: View of 5 and 15 feet soil vapor probes at boring location B34/SV5, prior to patching.



Photograph 10: View of drums of soil cuttings and decontamination water located along the southern site boundary.

PHOTOGRAPHS

750 EAST 49TH STREET LOS ANGELES, CALIFORNIA





Photograph 11: View of West Building, looking northeast from the Auditorium Building.



Photograph 12: Looking east with view of planter boxes at the north-central portion of the site.

PHOTOGRAPHS

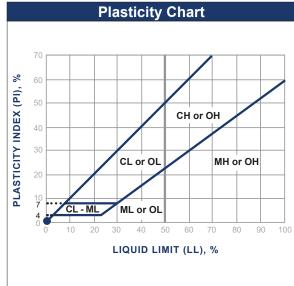
 $750~{\rm EAST}~49^{\rm TH}~{\rm STREET}$ LOS ANGELES, CALIFORNIA



APPENDIX C Boring Logs

	Soil Clas	sification C	hart	Per AST	M D 2488
	uius aus Divis	ione		Seco	ndary Divisions
F	rimary Divis	sions	Gro	up Symbol	Group Name
		CLEAN GRAVEL		GW	well-graded GRAVEL
		less than 5% fines		GP	poorly graded GRAVEL
	GRAVEL			GW-GM	well-graded GRAVEL with silt
	more than 50% of	GRAVEL with DUAL		GP-GM	poorly graded GRAVEL with silt
	coarse	CLASSIFICATIONS 5% to 12% fines		GW-GC	well-graded GRAVEL with clay
	retained on No. 4 sieve			GP-GC	poorly graded GRAVEL with clay
	No. 4 sieve	GRAVEL with		GM	silty GRAVEL
COARSE- GRAINED		FINES more than		GC	clayey GRAVEL
SOILS more than		12% fines	攤	GC-GM	silty, clayey GRAVEL
50% retained		CLEAN SAND		SW	well-graded SAND
on No. 200 sieve		less than 5% fines		SP	poorly graded SAND
	SAND 50% or more			SW-SM	well-graded SAND with silt
		SAND with DUAL		SP-SM	poorly graded SAND with silt
	of coarse fraction	CLASSIFICATIONS 5% to 12% fines		SW-SC	well-graded SAND with clay
	passes No. 4 sieve			SP-SC	poorly graded SAND with clay
		SAND with FINES		SM	silty SAND
		more than 12% fines		SC	clayey SAND
		12 /0 111163		SC-SM	silty, clayey SAND
				CL	lean CLAY
	SILT and	INORGANIC		ML	SILT
	CLAY liquid limit			CL-ML	silty CLAY
FINE-	less than 50%	ORGANIC		OL (PI > 4)	organic CLAY
GRAINED SOILS		0110/1110		OL (PI < 4)	organic SILT
50% or more passes		INORGANIC	//	СН	fat CLAY
No. 200 sieve	SILT and CLAY	INONOANIO		МН	elastic SILT
	liquid limit 50% or more	ORGANIC		OH (plots on or above "A"-line)	organic CLAY
		0110/1110		OH (plots below "A"-line)	organic SILT
	Highly (Organic Soils		PT	Peat

	Grain Size									
Desci	ription	Sieve Size	Grain Size	Approximate Size						
Bou	lders	> 12"	> 12"	Larger than basketball-sized						
Cok	obles	3 - 12"	3 - 12"	Fist-sized to basketball-sized						
Gravel	Coarse	3/4 - 3"	3/4 - 3"	Thumb-sized to fist-sized						
Graver	Fine	#4 - 3/4"	0.19 - 0.75"	Pea-sized to thumb-sized						
	Coarse	#10 - #4	0.079 - 0.19"	Rock-salt-sized to pea-sized						
Sand	Medium	#40 - #10	0.017 - 0.079"	Sugar-sized to rock-salt-sized						
Fine		#200 - #40	0.0029 - 0.017"	Flour-sized to sugar-sized						
Fir	nes	Passing #200	< 0.0029"	Flour-sized and smaller						



Ар	Apparent Density - Coarse-Grained Soil										
	Spooling C	able or Cathead	Automatic Trip Hammer								
Apparent Density	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)							
Very Loose	≤ 4	≤ 8	≤ 3	≤ 5							
Loose	5 - 10	9 - 21	4 - 7	6 - 14							
Medium Dense	11 - 30	22 - 63	8 - 20	15 - 42							
Dense	31 - 50	64 - 105	21 - 33	43 - 70							
Very Dense	> 50	> 105	> 33	> 70							

Consistency - Fine-Grained Soil										
	Spooling Ca	able or Cathead	Automatic Trip Hammer							
Consis- tency	SPT (blows/foot)	Modified Split Barrel (blows/foot)	SPT (blows/foot)	Modified Split Barrel (blows/foot)						
Very Soft	< 2	< 3	< 1	< 2						
Soft	2 - 4	3 - 5	1 - 3	2 - 3						
Firm	5 - 8	6 - 10	4 - 5	4 - 6						
Stiff	9 - 15	11 - 20	6 - 10	7 - 13						
Very Stiff	16 - 30	21 - 39	11 - 20	14 - 26						
Hard	> 30	> 39	> 20	> 26						



DEPTH (feet)	Bulk SAMPLES	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	BORING LOG EXPLANATION SHEET
0							Bulk sample.
-							Modified split-barrel drive sampler.
-							No recovery with modified split-barrel drive sampler.
-							Sample retained by others.
-							Standard Penetration Test (SPT).
5-							No recovery with a SPT.
-		XX/XX					Shelby tube sample. Distance pushed in inches/length of sample recovered in inches.
-							No recovery with Shelby tube sampler.
-							Continuous Push Sample.
-			Ş				Seepage.
10-			<u></u> <u>=</u>				Groundwater encountered during drilling. Groundwater measured after drilling.
			=				g.
-						SM	MAJOR MATERIAL TYPE (SOIL):
							Solid line denotes unit change. Dashed line denotes material change.
-						OL.	Dashed line denotes material change.
							Attitudes: Strike/Dip
							b: Bedding c: Contact
15-	H						j: Joint f: Fracture
	Ш						F: Fault
							cs: Clay Seam s: Shear
-							bss: Basal Slide Surface sf: Shear Fracture
_							sz: Shear Zone
							sbs: Shear Bedding Surface
							The total depth line is a solid line that is drawn at the bottom of the boring.
20-				l	ı		



	_	_		1	_	_		
DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B1 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP - -
0		09:02	B1-0.5					ASPHALT CONCRETE:
-		09:04	B1-2.5				SM	Approximately 4 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
-								
10 -								
-								
-								
-								
15 -								
-								
-								
-								



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B2 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - DROP - <td< th=""></td<>
0		08:50	B2-0.5					ASPHALT CONCRETE:
-		08:54	B2-2.5				SM	Approximately 4 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with concrete and bentonite to ground surface on 2/18/23. Notes:
5 –								Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
-								
10 -								
-								
-								
-								
15 -								
-								
-								
-								
20								



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B2-N GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - DROP - -
0		13:07	B2-N-0.5			188888	014	ASPHALT CONCRETE:
		13:10	B2-N-2.5				SM	Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
		13:13	B2-N-5				SP-SM	Light brown, dry, loose, poorly graded SAND with silt; fine-grained sand.
5 -						5 x 2 1 1		Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
15 -								



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B3 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - DROP - <td< th=""></td<>
0		09:23	B3-0.5				SM	FILL: Brown, dry, loose, silty SAND; fine-grained sand.
10-		09:25	B3-2.5					Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
20 -								



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B4 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		\09:31	B4-0.5				SM	ASPHALT CONCRETE:
-		09:32	B4-2.5					Approximately 2 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
-								
10 -								
-								
-								
-								
_								
15 -								
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-								
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-								
20								



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B4 GROUND ELEVATION XXXXXX'± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP - - DROP - - DROP - - - DROP - - - - - - - - - - - - - - - - - -
0		12:35	B4-5 B4-7.5				SM	
		-						



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B4-E2 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - SAMPLED BY EAC/AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		10:55	B4-E2-0.5				SM	ASPHALT CONCRETE:
-		10:57	B4-E2-2.5				Givi	Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
		10:59	B4-E2-5					
5		10.59	D4-E2-3					Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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(1	SAMPLES	E)	(mdc			NO	DATE DRILLED 4/3/23 BORING NO. B4-N GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1
DEPTH (feet)	Bulk	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT DROP SAMPLED BYEAC/ACLOGGED BYEACREVIEWED BYJA DESCRIPTION/INTERPRETATION
0 -		_{11:32}	B4-N-0.5				SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-		11:34	B4-N-2.5					
5 –		11:36	B4-N-5					Total Donth - 5 foot has
10 —								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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()	SAMPLES	Ę)	(mdc			ON	DATE DRILLED 4/3/23 BORING NO. B4-N2 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1
DEPTH (feet)	Bulk	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT DROP SAMPLED BYEAC/ACLOGGED BYEACREVIEWED BY JA DESCRIPTION/INTERPRETATION
0 -		12:05	B4-N2-0.5				SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-		12:07	B4-N2-2.5					
5 –		12:09	B4-N2-5					Total Depth = 5 feet bgs.
-								Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23.
-								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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	SAMPLES			Ē				DATE DRILLED4/3/23 BORING NOB4-W
DEPTH (feet)	Bulk SAN Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	GROUND ELEVATION XXXXXX' ± (MSL) SHEET1 OF1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT DROP
0		11:12	B4-W-0.5					ASPHALT CONCRETE:
-			B4-W-2.5				SM	Approximately 4 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
		11:16	B4-W-5					
5								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B4-W2 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - -
0		11:26	B4-W2-0.5				SM	ASPHALT CONCRETE:
-		11:28	B4-W2-2.5					Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
		11:30	B4-W2-5					
5 -			DT W23					Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet) Bulk Annivon Annivon	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B4-W3 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DROP -
5-		B4-W3-0.5				SM	FILL: Reddish gray, dry, medium dense, silty SAND; fine-grained sands. Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of
10							this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B4-W4 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DRIVE WEIGHT - DROP - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		08:03	B4-W4-0.5				SM	FILL: Reddish gray, dry, medium dense, silty SAND; fine-grained sands.
-		08:06	B4-W4-2.5					
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B4A GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		12:18	B4A-0.5				SM	ASPHALT CONCRETE:
-		12:20	B4A-2.5				SIVI	Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
		12:22	B4A-5					
5		12.22	DAVA					Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B5 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP - -
0		\11:02	B5-0.5 /				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		11:04	B5-2.5					FILL: Light brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B6 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		\11:11	B6-0.5 /				014	ASPHALT CONCRETE:
		11:12					SM	Approximately 2 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
		-						The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B7 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		\12:54	B7-0.5				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		12:55	B7-2.5					FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B8 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION - - - -
0		\12:48	B8-0.5 /				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		12:50	B8-2.5					FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B9 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - DROP - <td< th=""></td<>
0		\13:20	B9-0.5				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		13:22	B9-2.5					FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B10 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		\14:20	B10-0.5 /				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		14:22	B10-2.5					FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B11 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP - -
0		\13:07	B11-0.5				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		13:09	B11-2.5					FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B12 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP - -
0		\13:02	B12-0.5 /				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		13:04	B12-2.5					FILL: Light brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B13 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		∖13:36	B13-0.5				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		13:38	B13-2.5					FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B14 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		\13:40	B14-0.5 ʃ				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
		13:42	B14-2.5					FILL: Brown, dry, loose, silty SAND; fine-grained sand.
								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B14-E GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		14:40	B14-E-0.5				SM	FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-		14:41	B14-E-2.5					Tatal Darth - O.F. faat har
-		-						Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and cement to ground surface on 4/3/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-		_						The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B14-S GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION - - - -
0		14:45	B14-S-0.5				SM	FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-		14:47	B14-S-2.5					Tatal Darth - 0.5 feet has
-		_						Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and cement to ground surface on 4/3/23.
5 -		-						Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-		_						The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B15 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - -
0		13:57	B15-0.5				SM	ASPHALT CONCRETE:
		13:59	B15-2.5				SIVI	Approximately 3 inches thick. FILL: Light brown, dry, loose, silty SAND; fine-grained sand. Total Depth = 2.5 feet bgs.
								Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B16 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP - -
0		∖14:09	B16-0.5 /				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		14:10	B16-2.5					FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B17 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - DROP - <t< th=""></t<>
0		13:51	B17-0.5			188888	014	ASPHALT CONCRETE:
-		13:53	B17-2.5				SM	Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-		_						Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23.
5 -		-						Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B18 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - DROP - <t< th=""></t<>
0		\14:12	B18-0.5 /				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
-		14:14	B18-2.5					FILL: Brown, dry, loose, silty SAND; fine to medium sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to surface on 2/18/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B19 GROUND ELEVATION XXXXX'± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		08:20	B19-0.5			100000		ASPHALT CONCRETE:
-		08:25	B19-2.5					Approximately 4 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
-		08:29	B19-5				SP	Light brown, dry, loose, poorly graded SAND; fine-grained sand.
5								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B20 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - DROP
0		07:50	B20-0.5				SM	FILL: Light brown, dry, loose, silty SAND; fine-grained sand.
		07:52	B20-2.5					Dark brown.
5 -		07:58	B20-5					Total Depth = 5 feet bgs. Groundwater was not encountered during drilling
10 -								Groundwater was not encountered during drilling. Backfilled with bentonite to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B20-E GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - -
0		09:57	B20-E-0.5				SM	ASPHALT CONCRETE:
-		10:03	B20-E-2.5				JIVI	Approximately 3 inches thick. FILL: Brown, dry, very loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23.
5 –								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B20-W GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION - - - -
0		09:39	B20-W-0.5				SM	ASPHALT CONCRETE:
-		09:41	B20-W-2.5				Sivi	Approximately 3 inches thick. FILL: Brown, dry, very loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B21 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		08:03	B21-0.5				SM	FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-		08:05	B21-2.5					
5 -		08:08	B21-5					
10 -								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B21-W GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - -
0		10:19	B21-W-0.5				SM	ASPHALT CONCRETE: Approximately 3 inches thick.
-		10:25	B21-W-2.5				Civi	FILL: Brown, dry, very loose, silty SAND; fine-grained sand.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23.
5 -								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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	SAMPLE TIN	SAMPLE ID	PID READING (R	MOISTURE	SYMBOL	CLASSIFICATI U.S.C.S.	METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT DROP SAMPLED BYEAC/ACLOGGED BYEAC/ACREVIEWED BY JA DESCRIPTION/INTERPRETATION
	\08:38	B22-0.5 /				SM	ASPHALT CONCRETE: Approximately 2 inches thick.
	08:40	B22-2.5					FILL: Brown, dry, loose, silty SAND; fine to medium-grained sand.
	08:42	B22-5					
							Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
		Driven 08:40	Warner War	08:38 B22-0.5 SAMPLE TIMES OF	SAMPLE TIMES SAMPL	SAMPLE TIMEN Driven Driven	SAMPLE TIMES O8:38 B25-0.5 O8:40 B25-5.5 SWBOLE TIMES O8:40 B25-5.5



DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B23 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		08:42	B23-0.5			188888	014	ASPHALT CONCRETE:
-		08:44	B23-2.5 B23-5				SM	Approximately 3 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
5 -		00.47	D20 0					Total Depth = 5 feet bgs.
10 -								Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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et)	SAMPLES	ИЕ	0	(mdd			NOL	DATE DRILLED 2/20/23 BORING NO. B24 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1
DEPTH (feet)	Bulk	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT DROP
				۵			0	SAMPLED BY EAC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		09:00	B24-0.5 _/				SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL:
								Brown, dry, loose, silty SAND; fine-grained sand.
-		09:05	B24-2.5					
-								
5 -		09:10	B24-5					Total Depth = 5 feet bgs.
-								Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23.
								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level
								due to seasonal variations in precipitation and several other factors as discussed in the report.
								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of
								this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B25 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		09:38	B25-0.5 /			188888		ASPHALT CONCRETE:
-		09:40	B25-2.5					Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
		09:47	B25-5				SP	NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand.
10 -		09.47	D20-3					Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.



	SAMPLES	ш		(mdı		30L	ON	DATE DRILLED 2/20/23 BORING NO. B26
DEPTH (feet)	Bulk	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	GROUND ELEVATION XXXXX'± (MSL) SHEET1 OF1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT
0		10:05	B26-0.5			188888		ASPHALT CONCRETE:
-		10:09	B26-2.5				SM	Approximately 4 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
		10:12	B26-5					
5								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B27 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		12:19	В27-0.5				OM	ASPHALT CONCRETE:
-		12:21	B27-2.5				SM	Approximately 3 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
		12.23	B27-5				SP	NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand.
5		12:23	B27-5					Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B28 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		11:58	B28-0.5				014	ASPHALT CONCRETE:
-		12:03	B28-2.5				SM	Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
		12:04	B28-5				SP	NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand.
5 -								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B29 GROUND ELEVATION XXXXX'± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP -
0		10:55	B29-0.5				SM	FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
		11:00	B29-2.5					
		11:03	B29-5				SP	NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand.
5								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B30 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		10:25	В30-0.5				CM	ASPHALT CONCRETE:
		10:28	B30-2.5				SM	Approximately 3 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
		10:31	B30-5					
5 -								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B31 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		√07:30	B31-0.5				SM	ASPHALT CONCRETE:
-		07:32	B31-2.5				JIVI	Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand. Tetal Donth - 3.5 feet bgs.
-								Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23.
5 –								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	GROUND ELEVATION XXXXXY ± (MSL) SHEET1 OF1 METHOD OF DRILLING 3" Hand Auger to 5' bgs; then Direct Push (Interphase) DRIVE WEIGHT DROP SAMPLED BY EAC LOGGED BY EAC REVIEWED BY
0		12:52	B32-2.5	1.7			SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
5 -		12:56	B32-5	1.5			SP	NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand.
-		13:04	B32-10	0.0			SW	Light brown, dry, loose, well-graded SAND; fine to medium-grained sand.
10								Total Depth = 10 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of
15 -								this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DATE DRILLED	
SAMPLED BY EAC LOGGED BY EAC REVIEWED BY J. DESCRIPTION/INTERPRETATION O ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.	
SM Approximately 3 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.	<u>A</u>
Dark brown, dry, loose, silty SAND; fine-grained sand.	
13:39 B33-2.5 2.6	
SP NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand.	
10 13:50 B33-10 0.2 Total Depth = 10 feet bgs.	
Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23.	
Notes: Groundwater, though not encountered at the time of drilling, may rise to a hidue to seasonal variations in precipitation and several other factors as discuthe report.	
The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the pur	rposes of
this evaluation. It is not sufficiently accurate for preparing construction bids a documents.	and design



DEPTH (feet)	Bulk	LETIN	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/20/23 BORING NO. B34 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger to 5' bgs; then Direct Push (Interphase) DROP - SAMPLED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - DROP - DROP
0		14:19) B34-2.5	2.0			SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
10 -								Total Depth = 3 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/20/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B34-NE GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DRIVE WEIGHT - DROP - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		09:21	B34-NE-0.5				SM	FILL: Brown, dry, dense, silty SAND; fine to coarse-grained sand with trace fine gravel.
-		09:26	B34-NE-2.5					Medium dense; fine to medium-grained sands.
-		-						Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23.
5 -		-						Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-		-						The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B34-NE2 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DROP - - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - JA DESCRIPTION/INTERPRETATION
0		09:08	0.5 B34-NE2-				SM	FILL: Brown, dry, dense, silty SAND; fine to coarse-grained sand with trace fine to coarse gravel. Fine-grained sands.
5 -			2.5					Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B34-NW GROUND ELEVATION XXXXXX'± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DROP -
0		09:31	B34-NW-0.5				SM	FILL: Brown, dry, dense, silty SAND; fine to medium-grained sands.
-								Total Dept = 0.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23.
-								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5 –								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B34-NW2 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DRIVE WEIGHT - DROP - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
5			B34-NW2- 0.5 B34-NW2- 2.5				SM	FILL: Reddish gray, dry, medium dense, silty SAND; fine-grained sands. Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B34-SW GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DRIVE WEIGHT - DROP - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		09:50	B34-SW-0.5				SM	FILL: Brown, dry, dense, silty SAND; fine-grained sands.
-		09:54	B34-SW-2.5					Medium dense. Total Depth = 2.5 feet bgs.
-		_						Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23.
5 -		-						Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-		-						The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B34-SW2 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DRIVE WEIGHT - DROP - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0			B34-SW2- 0.5 B34-SW2- 2.5				SM	FILL: Brown, dry, dense, silty SAND; fine to coarse-grained sands. Metal debris around 2 feet bgs. Fine-grained sands.
5 -		_	\ <u>2.5</u> /					Total Depth = 2.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B34/SV5 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP - SAMPLED BY AC/SML LOGGED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0							SM	ASPHALT CONCRETE: Approximately 3 inches thick.
-		08:00	B34-2.5	0.3				FILL: Brown, dry, loose, silty SAND; fine to coarse-grained sands.
5 -		08:20	B34-5	0.3				Fine-grained sands.
10 -		08:30	B34-10	0.3			SP SM	NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand. Brown, dry, loose, silty SAND; fine-grained sand.
- 15 -							SIVI	
-								Total Depth = 15.5 feet bgs. Groundwater was not encountered during drilling. Soil vapor probes installed at approximately 5 and 15 feet bgs.
-		_						Backfilled with bentonite and concrete to ground surface on 4/5/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
20 -								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of



DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B34/SV5 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 2 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP -
00								SAMPLED BY AC/SML LOGGED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
20								this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.	
09:23 B35-5 0.3 Light brown.	
Total Depth = 10 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface or	n 4/5/23.
Notes: Groundwater, though not encountered at the time of drilling, may rise to a due to seasonal variations in precipitation and several other factors as dis the report. The ground elevation shown above is an estimation only. It is based on or interpretations of published maps and other documents reviewed for the pthis evaluation. It is not sufficiently accurate for preparing construction bid documents.	higher level cussed in ur ourposes of



DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B36 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		14:20	B36-0.5	5.5		*****	SW-SM	ASPHALT CONCRETE:
-						****** ***** ***** ***** *****		Approximately 3 inches thick. FILL: Reddish gray, dry, loose, well-graded SAND with silt; fine to coarse grained sand with trace amounts of fine to coarse gravel.
-		14:23	B36-2.5	2.7			SM	Reddish gray, dry, loose, silty SAND; fine-grained sand.
5		14:40	B36-5	3.5				
		14:42	B35-10	3.0			SM	NATIVE: Reddish gray, moist, medium dense, silty SAND; fine-grained sand.
								Total Depth = 10 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 4/5/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B37/SV1 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP - SAMPLED BY AC LOGGED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		13:26	B37-0.5				SM	ASPHALT CONCRETE: Approximately 3 inches thick.
-		13:32	B37-2.5	0.4				FILL: Brown, dry, loose, silty SAND; fine-grained sand to fine gravel. Fine-grained sand.
5 — -		13:42	B37-5	0.4				
10 -		13:44	B37-10	0.8			SP	NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand.
15 —		13:46	B37-15	0.8				Light brown, dry, loose, fine to coarse-grained sand.
-								Total Depth = 15.5 feet bgs. Groundwater was not encountered during drilling. Soil vapor probes installed at approximately 5 and 15 feet bgs. Backfilled with bentonite and concrete to ground surface on 4/5/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of



DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B37/SV1 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 2 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP -
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	SAMPLES			<u> </u>				DATE DRILLED4/5/23 BORING NO B38/SV2
eet)	SAN	IME	Q	PID READING (ppm)	뮕	٦	CLASSIFICATION U.S.C.S.	GROUND ELEVATION XXXXX' ± (MSL) SHEET1 OF2
DEPTH (feet)	ے	SAMPLE TIME	SAMPLE ID	DIING	MOISTURE	SYMBOL	SIFICA .S.C.S	METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push
H	Bulk	SAM	SAI	D RE/	MO	Ś	LASS U	DRIVE WEIGHT DROP
				₫			0	SAMPLED BY AC LOGGED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		12:37	B38-0.5				SM	ASPHALT CONCRETE: Approximately 3 inches thick.
-								FILL: Reddish brown, dry, loose, silty SAND; fine to coarse-grained sand.
								Reduish brown, dry, loose, silty SAND, line to coarse-grained sand.
-		12:39	B38-2.5	0.3				
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		12:53	B38-5	4.0				Fine grained cond
5 –		12:53	B38-5	1.0				Fine-grained sand.
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10 –		12:55	B38-10	0.7				Light brown.
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15 –		12:58	B38-15	0.8				
_								Total Depth = 15.5 feet bgs. Groundwater was not encountered during drilling.
								Soil vapor probes installed at approximately 5 and 15 feet bgs. Backfilled with bentonite and concrete to ground surface on 4/5/23.
-								Notes:
-								Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in
								the report.
-								The ground elevation shown above is an estimation only. It is based on our
20 –								interpretations of published maps and other documents reviewed for the purposes of



DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B38/SV2 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 2 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP - SAMPLED BY AC LOGGED BY AC REVIEWED BY JA
20								DESCRIPTION/INTERPRETATION this evaluation. It is not sufficiently accurate for preparing construction bids and design
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	SAMPLES			<u> </u>				DATE DRILLED4/5/23BORING NOB39/SV3
(teet)	SAN	TIME	E ID	PID READING (ppm)	JRE	ОГ	CLASSIFICATION U.S.C.S.	GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 2
DEPTH (feet)	소 C	SAMPLE TIME	SAMPLE ID	ADIN	MOISTURE	SYMBOL	SSIFIC U.S.C.	METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push
8	Bulk	SAI	Ø	JD RE	Σ		CLAS	DRIVE WEIGHT DROP
				<u> </u>				SAMPLED BY AC/SML LOGGED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		10:49	B39-0.5				SM	ASPHALT CONCRETE: Approximately 3 inches thick.
-								FILL: Reddish brown, dry, loose, silty SAND; fine to coarse-grained sand.
=		-						
		10:52	B39-2.5	0.1				
-		_						
-		-						
		11:00	B39-5	0.5				Fine-grained sand.
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		11:02	B39-10	0.9				
10 –		11.02	200 10	0.0				
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-							SP	NATIVE: Light brown, dry, loose, poorly graded SAND; fine-grained sand.
15 -		11:05	B39-15	0.6				
-								Total Depth = 15.5 feet bgs. Groundwater was not encountered during drilling.
								Soil vapor probes installed at approximately 5 and 15 feet bgs. Backfilled with bentonite and concrete to ground surface on 4/5/23.
-	\vdash	-						Notes:
=		-						Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in
								the report.
-								The ground elevation shown above is an estimation only. It is based on our
20 -								interpretations of published maps and other documents reviewed for the purposes of



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLEID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B39/SV3 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 2 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP - SAMPLED BY AC/SML LOGGED BY AC REVIEWED BY JA
20								This evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B40 GROUND ELEVATION XXXXXX'± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - -
-		10:39	B40-2.5	0.0			SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
5		11.20	D+0~3	0.0				Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B40A GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DROP - -
0	Bri	/S		PID R				SAMPLED BY AC LOGGED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
- - -							SM	FILL: Brown, dry, dense, silty SAND; fine to medium-grained sands. Total Depth = 0.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5 -								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B41 GROUND ELEVATION XXXXXX'± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP - - -
-		10:11	B41-2.5 B41-5	0.0			SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
5			5410					Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to surface on 2/18/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 5/6/23 BORING NO. B41A GROUND ELEVATION XXXXXX'± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3.25" Hand Auger DROP - - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION DROP JA DESCRIPTION/INTERPRETATION
0		08:37	B41A-0.5				SM	FILL: Brown, dry, medium dense, silty SAND; fine to medium-grained sands.
-								Total Depth = 0.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 5/6/23.
-								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
5 –								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 2/18/23 BORING NO. B42 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT - DROP - SAMPLED BY EAC/AC LOGGED BY EAC/AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
- - -			B42-2.5 B42-5	0.0			SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Dark brown, dry, loose, silty SAND; fine-grained sand.
5								Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 2/18/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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t)	SAMPLES	IE .	Q	(mdc			NO	DATE DRILLED 4/3/23 BORING NO. B42A GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1
DEPTH (feet)	Bulk	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	METHOD OF DRILLING 3" Hand Auger (Interphase) DRIVE WEIGHT DROP SAMPLED BYEAC/ACLOGGED BYEACREVIEWED BYJA DESCRIPTION/INTERPRETATION
0 -		_{13:44}	B42A-0.5 ,				SM	ASPHALT CONCRETE: Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand.
-		13:46	B42A-2.5					
5 –		13:48	B42A-5					Total Depth = 5 feet bgs.
-								Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23.
-								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
-								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B43/SV4 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 1 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP - SAMPLED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		15:15	В43-0.5				SM	ASPHALT CONCRETE:
-		15:20	B43-2.5	2.7			SIVI	Approximately 3 inches thick. FILL: Brown, dry, loose, silty SAND; fine-grained sand with trace fine gravel.
		45.00			+-			Light brown, dry, loose, silty SAND; fine-grained sands.
5		15:28	B43-5	0.9			SIM	Brown.
- - 15 –		15:35	B43-15	1.6				Tatal Danth 45 5 feet has
-		-						Total Depth = 15.5 feet bgs. Groundwater was not encountered during drilling.
								Soil vapor probes installed at approximately 5 and 15 feet bgs. Backfilled with bentonite and concrete to ground surface on 4/5/23.
-								Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report.
20 -								The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of



DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B43/SV4 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 2 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP - SAMPLED BY AC LOGGED BY AC REVIEWED BY JA
20						\blacksquare		DESCRIPTION/INTERPRETATION this evaluation. It is not sufficiently accurate for preparing construction bids and design
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B44 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 1 METHOD OF DRILLING 3" Hand Auger (Interphase) DROP - - DRIVE WEIGHT - DROP - - SAMPLED BY EAC/AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		14:16	B44-0.5	3.9			SM	ASPHALT CONCRETE:
-		14:18	B44-2.5	4.5			GWI	Approximately 3 inches thick. FILL: Brown, dry, very loose, silty SAND; fine-grained sand.
		14.00	D44.5					
5		14:20	B44-5	2.3				Total Depth = 5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete to ground surface on 4/3/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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	LES							DATE DRILLED
()	SAMPLES	₩ W	Q	(mdd			NO	GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 2
DEPTH (feet)		LE TIME	PLE II	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	METHOD OF DRILLING Hand Auger to 5' bgs; then Geoprobe 6620 DT Direct Push
DEPT	Bulk	SAMPLE	SAMPLE	READ	MOIS	SYI		DRIVE WEIGHT DROP
_		σ		PID			겁	SAMPLED BY AC LOGGED BY EAC REVIEWED BY JA
0		08:00	B45-0.5	0.1 /				DESCRIPTION/INTERPRETATION ASPHALT CONCRETE:
		00.00	D-10-0.5	0.1			SM	Approximately 3 inches thick. FILL:
-								Reddish brown, dry, loose, silty SAND; fine-grained sand. @ 1': Brick material encountered.
-		08:05	B45-2.5	0.1				© 1. Block material encountered.
		06.05	Б45-2.5	0.1				
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		08:15	B45-5	0.1			SP-SM	Brown, dry, loose, poorly graded SAND with silt; fine-grained sand.
5 –						1201 1401 1201		
-						778 F () 748 F () 748 F ()		
						recti District District Distri		
-							SP	Light brown, dry, very loose, poorly graded SAND; fine-grained sand.
-		-						
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10 -		08:30	B45-10	0.1				
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		08:35	B45-15	0.2				
15 –								Total Donth - 15 5 foot has
-								Total Depth = 15.5 feet bgs. Groundwater was not encountered during drilling.
								Soil vapor probes installed at approximately 5 and 15 feet bgs. Backfilled with bentonite and concrete to ground surface on 4/3/23.
-								Notes:
-								Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in
								the report.
-								The ground elevation shown above is an estimation only. It is based on our
20 -								interpretations of published maps and other documents reviewed for the purposes of



DEPTH (feet)	Bulk SAMPLES	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/3/23 BORING NO. B45/SV6 GROUND ELEVATION XXXXXX' ± (MSL) SHEET 2 OF 2 METHOD OF DRILLING Hand Auger to 5' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP -
00				ш				SAMPLED BY AC LOGGED BY EAC REVIEWED BY JA DESCRIPTION/INTERPRETATION
20		-						this evaluation. It is not sufficiently accurate for preparing construction bids and design documents.
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DEPTH (feet)	Bulk SAMPLES Driven	SAMPLE TIME	SAMPLE ID	PID READING (ppm)	MOISTURE	SYMBOL	CLASSIFICATION U.S.C.S.	DATE DRILLED 4/5/23 BORING NO. B46 GROUND ELEVATION XXXXX' ± (MSL) SHEET 1 OF 2 METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push DRIVE WEIGHT - DROP - SAMPLED BY AC/SML LOGGED BY AC REVIEWED BY JA DESCRIPTION/INTERPRETATION
0		09:58	B46-0.5				SM	ASPHALT CONCRETE: Approximately 3 inches thick.
-		10:00	B46-2.5	0.2				FILL: Brown, dry, loose, silty SAND; fine to coarse-grained sand.
5-		10:13	B46-5	0.2				
10 -		10:15	B46-10	0.5				Light brown. Void from approximately 10 to 11.5 feet bgs.
15 -		10:25	B46-15	0.8				Total Donth - 15 5 foot has
20 -								Total Depth = 15.5 feet bgs. Groundwater was not encountered during drilling. Backfilled with bentonite and concrete with black dye to ground surface on 4/5/23. Notes: Groundwater, though not encountered at the time of drilling, may rise to a higher level due to seasonal variations in precipitation and several other factors as discussed in the report. The ground elevation shown above is an estimation only. It is based on our interpretations of published maps and other documents reviewed for the purposes of this evaluation. It is not sufficiently accurate for preparing construction bids and design



	SAMPLES							DATE DRILLED 4/5/23 BORING NO. B46
et)	SAM	ME	Ω	PID READING (ppm)	щ	SYMBOL	CLASSIFICATION U.S.C.S.	GROUND ELEVATION XXXXX' ± (MSL) SHEET 2 OF 2
H (fe		LE T	SAMPLE ID	OING	MOISTURE			METHOD OF DRILLING Hand Auger to 4' bgs; then Geoprobe 6620 DT Direct Push
DEPTH (feet)	Bulk	SAMPLE TIME	SAN	REAI				DRIVE WEIGHT DROP
		0)		PID			겁	SAMPLED BY AC/SML LOGGED BY AC REVIEWED BY JA
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APPENDIX D Geophysical Survey Report

Fax: (760) 476-0493

February 28, 2023

Project/Invoice No. 23-058

Ninyo & Moore 475 Goddard, Suite 200 Irvine, California 92618

Attn: Dennis Fee

Re: Geophysical Investigation Report, 49th Street Elementary School; 750 East 49th Street, Los Angeles, California 90043

This report is to present the results of our geophysical survey carried out at 49th Street Elementary School located at 750 East 49th Street, Los Angeles, California 90043 (Figure 1). The survey was performed on February 18th & 20th, 2023, and its primary purpose was to detect and delineate, insofar as possible, underground fuel storage tanks (UST), a former incinerator, evidence of a former above ground storage tank (AST), and a former boiler room. A secondary purpose of the survey was to detect and delineate, insofar as possible, pipes, conduits, utilities, and other underground obstructions within a five (5) foot radius of forty-six (46) proposed boreholes and three (3) alternate drill locations.

A combination of electromagnetic induction (EM), magnetometry, and ground penetrating radar (GPR) were brought to the field in anticipation of use. Utility locators with line tracing capabilities were also used where applicable.

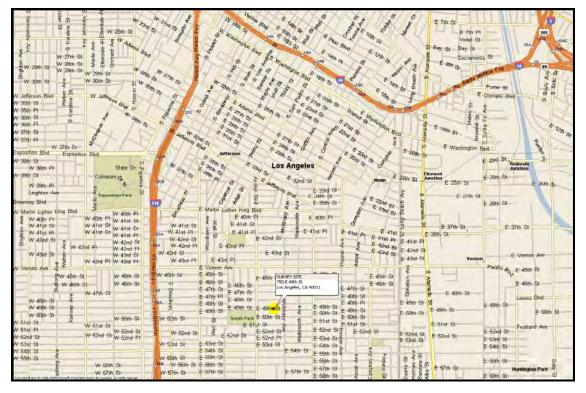


FIGURE 1. Site location map.

Survey Design – The area of investigation for the UST, AST, Boiler Room and incinerator included the northeastern portion of the school with a focus around the West Building. The forty-six boreholes and three alternate drill locations were located throughout the campus with their exact locations indicated in the field by the client.

For all survey objectives, the best use of time was achieved by systematically free-traversing with the instruments while monitoring them manually, continuously, and in real-time to determine which responses were significant and due to true subsurface targets, and which were due to other non-target or above-ground features and must be ignored (an example being nearby rebar reinforced concrete and ADA Ramp). In these situations, the free-traversing method is advantageous in that it allows for immediate detection of anomalous objects and facilitates the opportunity to investigate them further despite the obstructions and without the need to first download data. Where space was available for traversing, the EM devices, magnetic gradiometer, and GPR were traversed systematically over the survey areas in multiple, organized directions. Other traverses were taken for detailing and confirmation where anomalous conditions were found.

In addition, the line tracers were used to impress signals onto pipes, generally through accessible risers and tracer wires when present, to delineate the lines' locations and orientations. The instruments were also used in passive mode, configured to detect 60 Hz electrical signals and other common radio-frequency signals found in active electrical and communication lines.

A Geonic's model EM61 and a Fischer M-Scope was used for the EM sampling. A Sensors & Software Noggin Ground Penetrating Radar unit with a 500 MHz antenna produced the radar images. The magnetic gradiometer was a Schonstedt GA-52, and a Metrotech 9890 and RIDGID SR-60 SeekTech utility locator rounded out the tools applied.

Brief Description of the Geophysical Methods Applied – The EM61 instrument is a high resolution, time-domain device for detecting buried conductive objects. It consists of a powerful transmitter that generates a pulsed primary magnetic field when its coils are energized, which induces eddy currents in nearby conductive objects. The decay of the eddy currents, following the input pulse, is measured by the coils, which in turn serve as receiver coils. The decay rate is measured for two coils, mounted concentrically, one above the other. By making the measurements at a relatively long time interval (measured in milliseconds) after termination of the primary pulse, the response is nearly independent of the electrical conductivity of the ground. Thus, the instrument is a super-sensitive metal detector. Due to its unique coil arrangement, the response curve is a single well-defined positive peak directly over a buried conductive object. This facilitates quick and accurate location of targets.

The M-Scope device energizes the ground by producing an alternating primary magnetic field with AC current in a transmitting coil. If conducting materials are within the area of influence of the primary field, AC eddy currents are induced to flow in the conductors. A receiving coil senses the secondary magnetic field produced by these eddy currents, and outputs the response as anomalous conditions. The strength of the secondary field is a function of the conductivity of the object; say a pipe, tank or cluster of drums, its size, and its depth and position relative to the instrument's two coils. Conductive objects, to a depth of approximately 7 feet below ground surface (bgs) for the M-Scope are sensed. The device is also somewhat focused; that is, it is more sensitive to conductors below the instrument than they are to conductors off to the side.

The GPR instrument beams energy into the ground from its transducer/antenna, in the form of electromagnetic waves. A portion of this energy is reflected back to the antenna at a boundary in the subsurface across which there is an electrical contrast. The instrument produces a continuous record of the reflected energy as the antenna is traversed across the ground surface. The greater the electrical contrast, the higher the amplitude of the returned energy. The radar wave travels at a velocity unique to the material properties of the ground being investigated, and when these velocities are known, the two-way travel times can be converted to depth. The depth of penetration and image resolution produced are a function of ground electrical conductivity and dielectric constant.

The magnetic gradiometer has two flux gate magnetic fixed sensors that are passed closely to and over the ground. When not in close proximity to a magnetic object, that is, only in the earth's field, the instrument emits a sound signal at a low frequency. When the instrument passes over a buried iron or steel object, so that locally there is a high magnetic gradient, the frequency of the emitted sound increases. The frequency is a function of the gradient between the two sensors.

The line locator is used to passively detect energized high voltage electric lines and electrical conduit (50-60 Hz), VLF signals (14-22 kHz), as well as to actively trace other utilities. Where risers are present, the utility locator transmitter can be connected directly to the object, and a signal (9.8-82 kHz) is sent traveling along the conductor, pipe, conduit, etc. In the absence of a riser, the transmitter can be used to impress an input signal on the utility by induction. In either case, the receiver unit is tuned to the input signal, and is used to actively trace the signal along the pipe's surface projection.

Interpretation and Conclusions – The interpretation took place in real time as the survey progressed, and accordingly, the findings of our investigation were marked on the ground cover at the site with spray chalk, reported directly to the client, and are further documented with a site map of notable findings (Figure 2) and site photographs of notable findings and proposed boreholes (Figures 3-50). Note that boreholes **B11**, **B13** & **B14** were not cleared as they had already been hand augured before subsurface survey personnel could scan the locations.

Detected items were painted out on site and are additionally highlighted in all accompanying graphics in coordinated colors including red for electric, orange for communication, blue for water, green for sewer and drain, yellow for gas and former fuel lines, and white for unknown lines. Additionally, orange was used to mark out the extent of a deep soil disturbance, yellow was used to mark out a shallow soil disturbance and pink was used to mark out a shallow EM anomaly. Please review the site map and site photographs for the locations and orientations of all detected items.

No evidence of a former incinerator was detected within the survey area (Figure 2 & 37).

No evidence of a former AST was detected within the survey area (Figures 2 & 38).

A shallow soil disturbance was detected in the survey area measuring approximately 10 feet 8 inches by 6 feet 6 inches and was located adjacent to the west side of the Main Building near the reported location of a former boiler room (Figures 2 & 49). This anomaly coincides with the reported location of the former boiler room and is most likely a result of the removal of the former boiler room footing or foundations.

A deep soil disturbance was detected in the survey area near the south edge of the ADA Ramp measuring approximately 11 feet 9 inches by 11 feet 6 inches (Figures 2 & 46-50). This anomaly is near the reported

location of the UST however due to the presence of the highly reinforced ADA Ramp overlying part of the anomaly we are unable to determine if any large metallic anomalies lay within the deep soil disturbance. Additionally the ADA Ramp prevented full and complete radar passes across the anomaly and reduced our detection capabilities near the ramp. Therefore while no UST was detected we cannot say with 100% certainty that a UST is not present underlying or immediately adjacent to the ADA Ramp.

A former fuel line was also detected within the survey area leading to a concrete patch within the sidewalk north of the survey area (Figures 2 & 50). This fuel line could only be traced from the concrete patch south into the survey area up to the canopy connecting the West Building and the Main Building. After the canopy the ADA Ramp prevented detection of the fuel line as full radar traverses could not traverse the potential path of the fuel line.

An EM anomaly measuring approximately 4 feet 6 inches in diameter was detected just west of the base of the ADA Ramp and Deep Soil Disturbance (Figures 2 & 46-47). This anomaly appears to be a near surface metallic object at approximately 2-3 feet bgs. Further information about this anomaly could not be ascertained as it was not visible on radar and the nearby concrete encased electrical conduit and ADA Ramp masked the presence of any deeper metallic responses.

The forty-nine proposed boreholes were either clear as where originally positioned by the client or were moved slightly to better avoid detected obstructions. In their final locations all were marked in white with a yellow "SSS" to indicate that each had been checked by company personnel.

Limitations and Further Recommendations - It should be understood that limitations inherent in geophysical instruments and/or surveying techniques exist at all sites, and nearly all sites exhibit conditions under which such might not perform optimally. Consequently, the detection of buried objects in all circumstances cannot be guaranteed. Such limitations are numerous and include, but are not limited to, rebar-reinforced ground cover, abrupt changes in ground cover type, above-ground obstacles preventing full traverses or traverses in one direction only, above-ground conductive objects interfering with instrument signal, nearby powerlines or EM transmitters, highly conductive background soil conditions, limited GPR penetration, non-metallic targets, shallower or larger objects shielding deeper or smaller targets, tracing signal jumping from one line to another, and inaccessible risers, cleanouts, valve boxes, and manholes. If one or more geophysical instrument is rendered ineffective and cannot be utilized, the quality of the survey can be somewhat degraded.

For the above reasons, and in the interest of maximum safety, we encourage our clients to take advantage of Underground Service Alert (USA), Dig Alert, or other similar services, when possible. Furthermore, we recommend hand-auguring and the use of a drilling method known as air knifing or vacuum extraction, when feasible or if applicable to this project. These methods may significantly limit damage to underground pipes, conduits, and utilities that might not have been detectable during the course of this survey. Please bear in mind, that geophysical surveying is only one of several levels of protection that is available to our clients.

SubSurface Surveys may include maps in some reports. While they are an accurate general representation of the site and our findings, they are not of engineering quality (i.e., measured and mapped by a licensed land surveyor).

SubSurface Surveys and Associates makes no guarantee either expressed or implied regarding the accuracy

of the findings and interpretations present. And, in no event will SubSurface Surveys and Associates be liable for any direct, indirect, special, incidental, or consequential damages resulting from interpretations and opinions presented herewith.

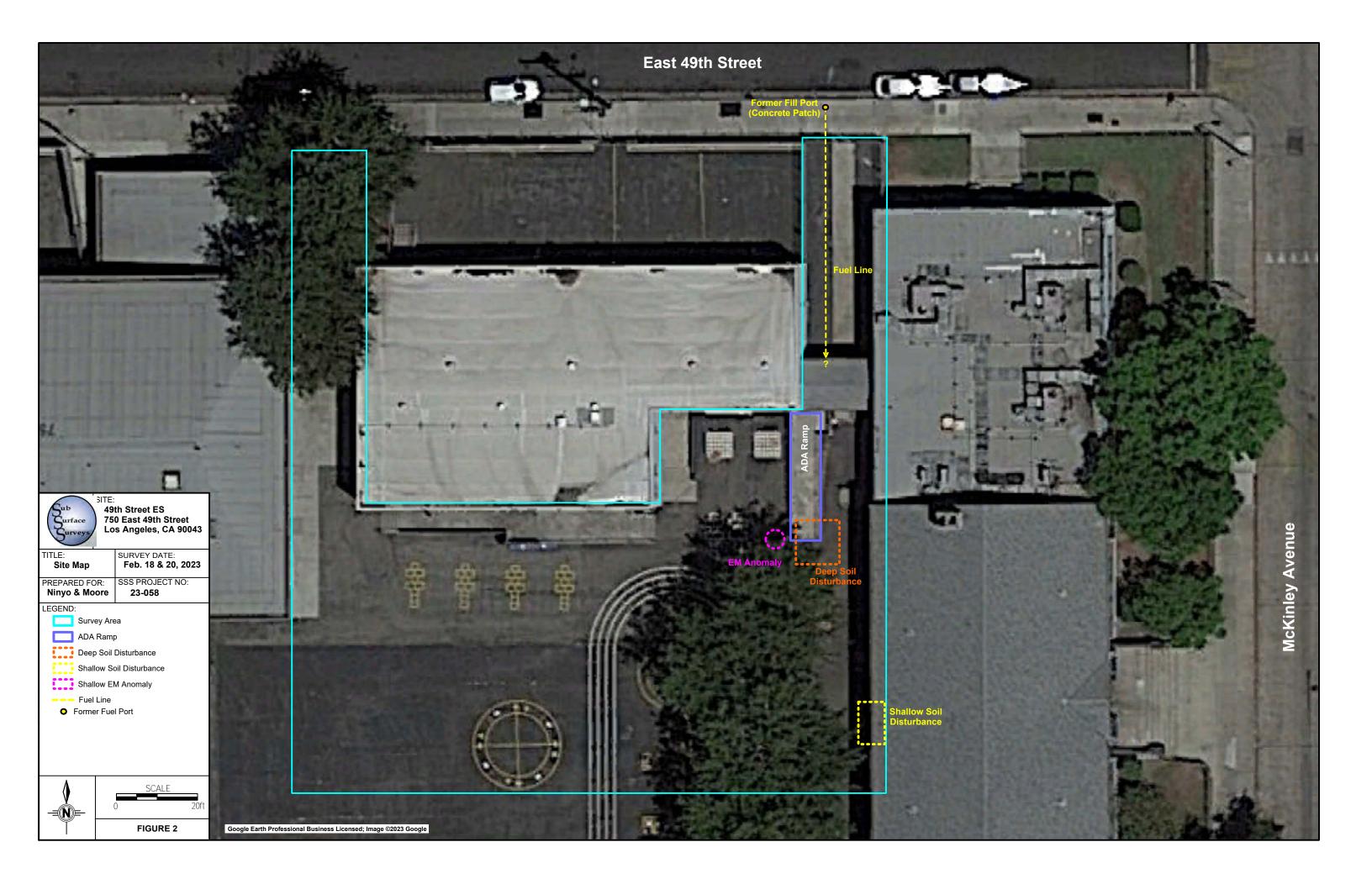
All data generated on this project are in confidential file in this office, and are available for review by authorized persons at any time. The opportunity to participate in this investigation is very much appreciated. Please call, if there are questions.

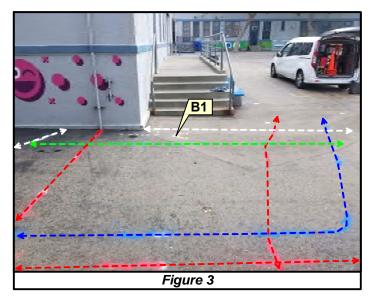
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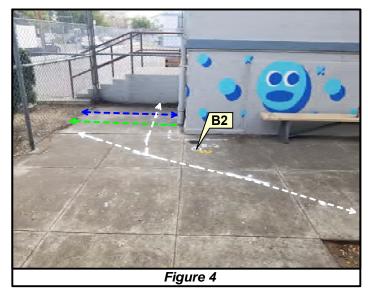
Staff Geophysicist, SubSurface Surveys

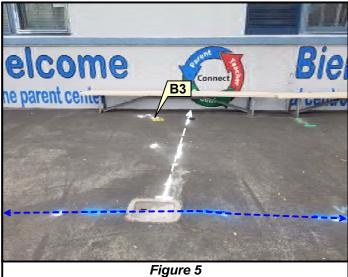
Travis Crosby

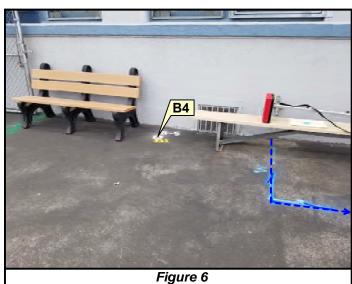
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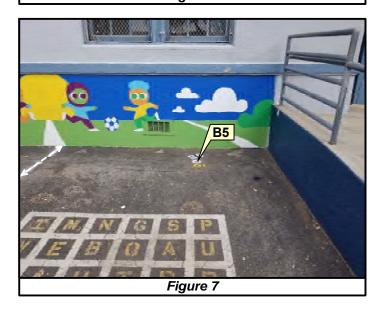


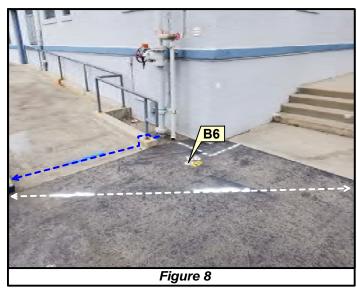












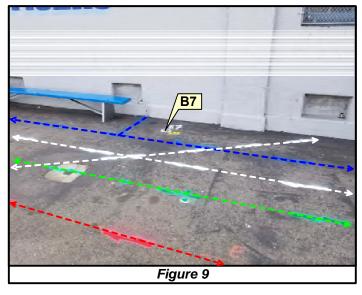


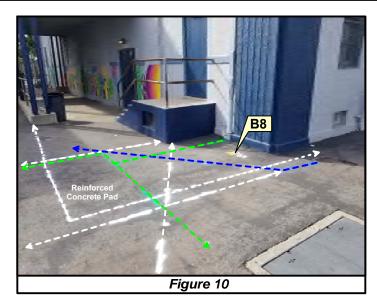
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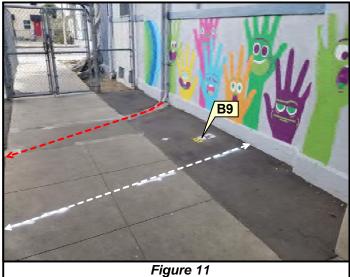
PREPARED FOR: Ninyo & Moore

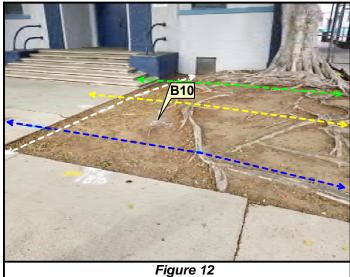
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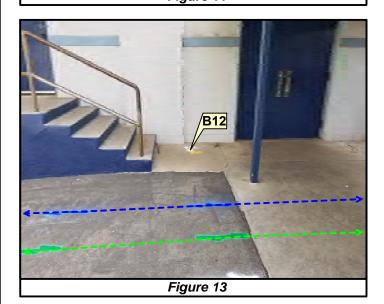
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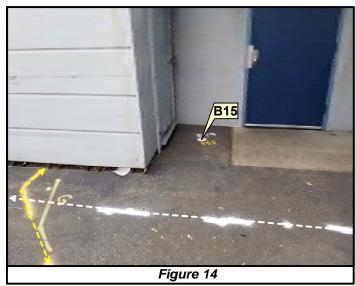








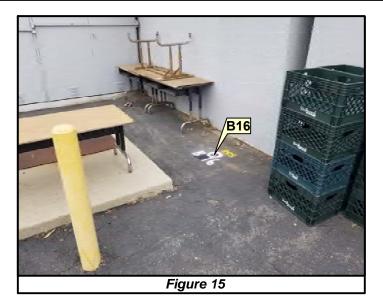




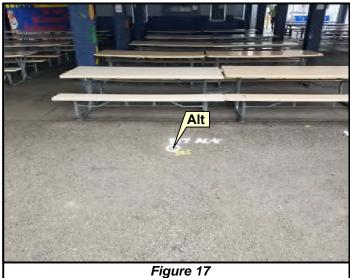


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Ninyo & Moore

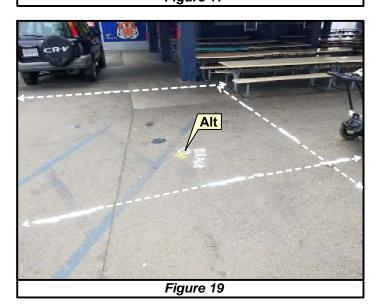
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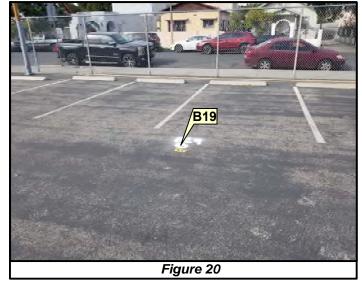










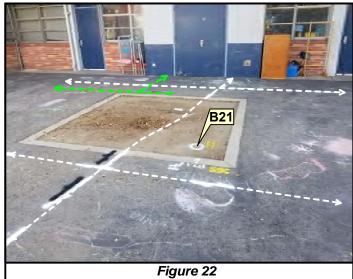


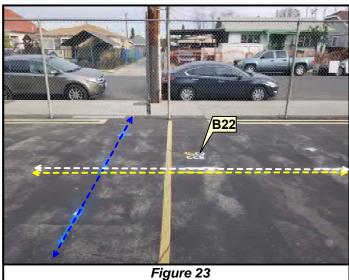


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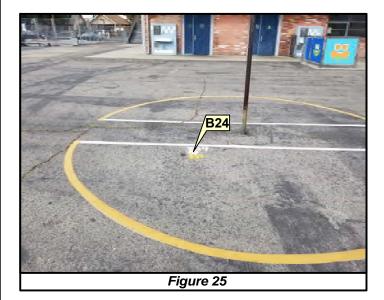
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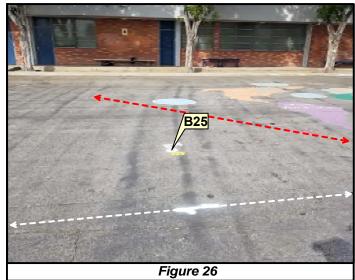








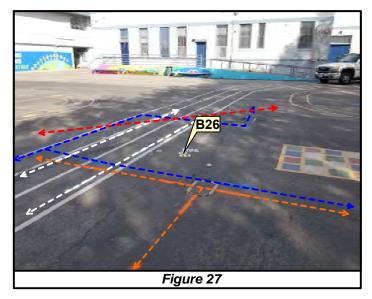


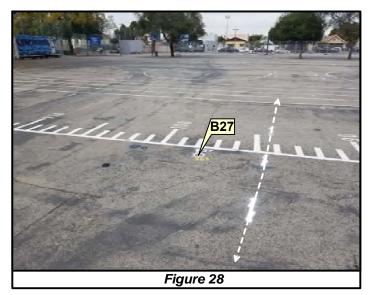




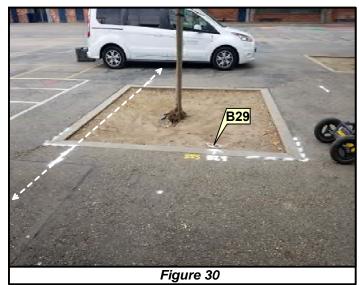
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Ninyo & Moore

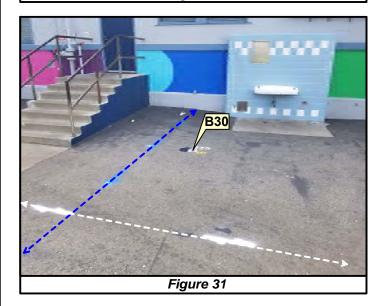
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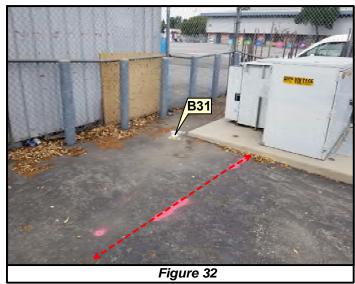








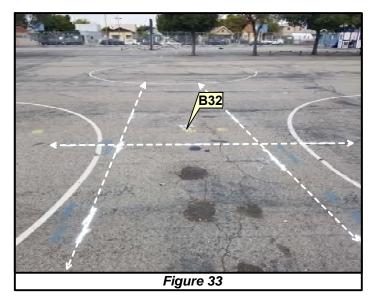




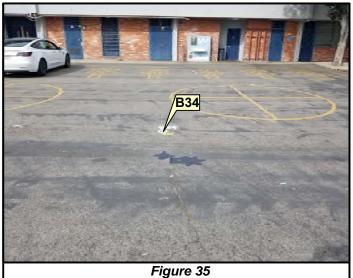


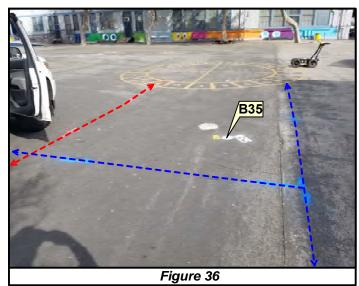
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PREPARED FOR:
Ninyo & Moore

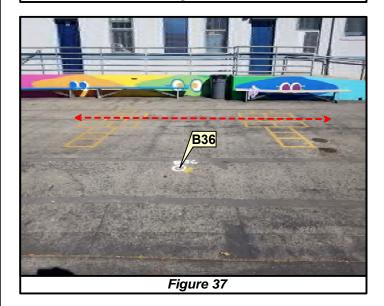
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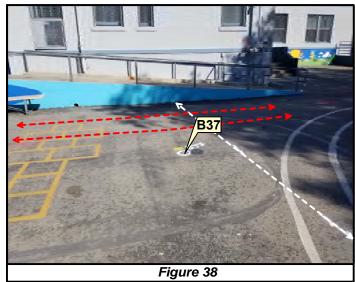












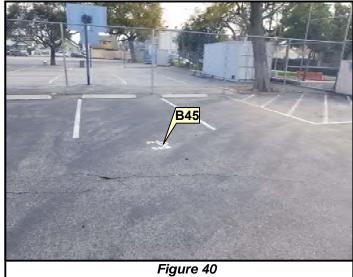


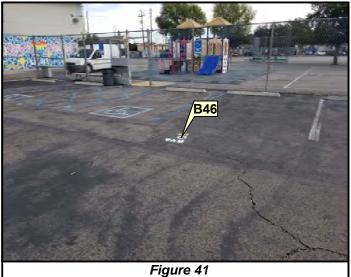
TITLE:
Site Photographs
PREPARED FOR:
Ninyo & Moore

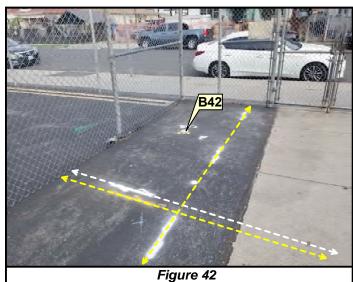
SURVEY DATE: February 18 & 20, 2023

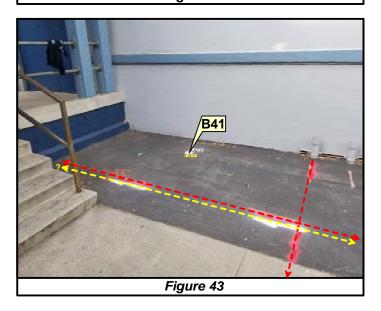
SSS PROJECT NO: 23-058

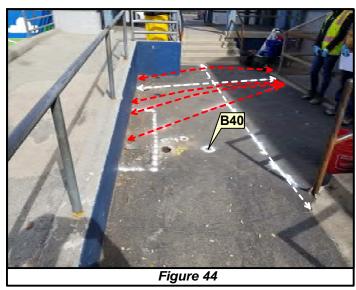








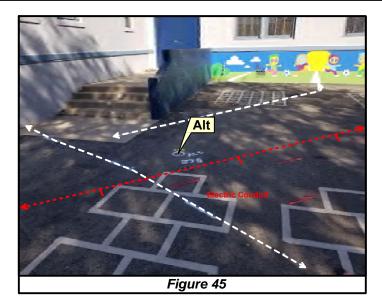


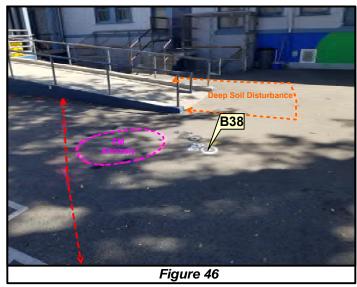


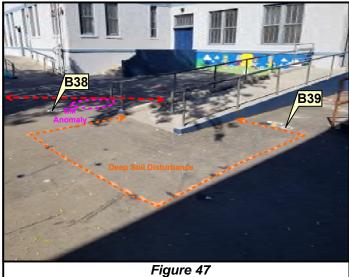


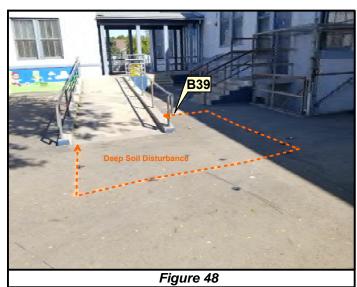
TITLE:
Site Photographs
PREPARED FOR:
Ninyo & Moore

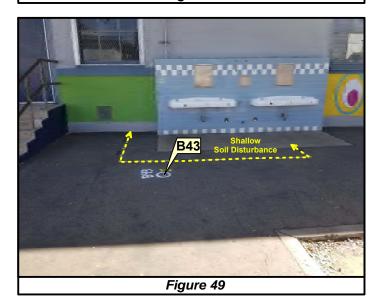
SURVEY DATE:
February 18 & 20, 2023
SSS PROJECT NO:

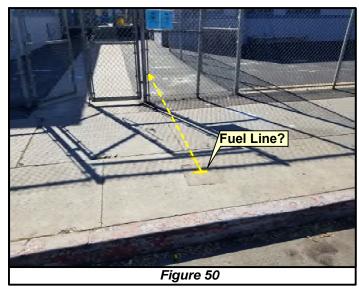














TITLE:
Site Photographs
PREPARED FOR:
Ninyo & Moore

SURVEY DATE:
February 18 & 20, 2023
SSS PROJECT NO:

APPENDIX E Signed Non-Hazardous Waste Manifest

	Manifest		SOIL SA	n-Hazar			21	↓ Mar	ifest # \	V	
	Date of Shipment:	Responsible for	Payment:	Transport	Truck #:		Facility #:	Approval Num	iber:	Load #	
	1	1					A07				
Ш	Generator's Name and Billing	Address:			1000	or's Phone					
Ш	L.A.U.S.D OEHS	_			213-241-3199 Person to Contact:		C/	D982025	165		
Ш	233 S. BEAUDRY AV 21ST FLOOR	Æ.									
Ш	LOS ANGELES, CA	90017			FAX#:			Customer Acco	Customer Account Number		
Н	Consultant's Name and Billing	3 Address:			Consultant's Phone #:						
Ш					Person to Contact:			14.			
П					FAX#:			Customer Acco	ount Number		
Ш	Generation Site (Transport fro	and the second second second	APPARTU ANI	ino.	Site Phone #: Person to Contact:						
ant	LAUSD - 49TH ST. 750 E. 49TH ST.		INTARY SCE	1DOL							
Generator and/or Consultant	LOS ANGELES,	OA SUUTT			FAX#:						
or Co	Designated Facility (Transport	to): (name & address)				Phone #:	8001				
and	SOIL SAFE 12328 HIBISOUS	SAVENUE			Person	to Contact:					
tor	ADELANTO, GA				FAX#:	DE PRO	VANSAL				
nera					The state of the s	60) 246-	8004				
Ge	Transporter Name and Mailin		orter's Phon								
	BELSHIRE		9-460-5 to Contact:	200	G/	CAR000183913					
Ш	25971 TOWNE (FOOTHILL RAN	The second second		OOTHART		1629169	3				
	POOTFILL DAN	FAX#:	9-460-5	otn	Customer Acco	ount Number					
	Description of Soil	Moisture Content	Contaminated	by: Appro			tion of Delivery	Gross Weight	Tare Weight	t Net Weight	
	Sand Organic Clay Other	0 - 10%	Diesel C	3	DM						
	Sand Organic Clay Other	0 - 10%	Gas Diesel C								
	List any exception to items list		Other C	-		Sc	cale Ticket #				
П	Generator's and/or consul										
	Sheet completed and certifin any way. Print or Type Name: General Company Com		ltant 🗆		nature an		nus been uuuei	or done to such	Month,		
-	Bria Congres	(chi=	ALCONO.		ma C	Znni	2 cm let	LAVI & VEH	1 106	13 23	
Transporter	Transporter's certification condition as when receive	d. I/We further cer	tify that the soi	l is being	directly	transport	ed from the Ge	oil is being delive neration Site to	red in exac the Designa	tly the same ated Facility	
ans	without off-loading, addin	1	om or in any wa		g <i>deliver</i> mature an	•	site.		Month	Day , Year	
1	Dank Jo	11070	1						- 6	13 23	
ity	Discrepancies:										
Recycling Facility										- 1	
cling	Recycling Facility certifies	the receipt of the s	oil covered by th	nis manife	st except	as noted	above:				
Recy	Print or Type Name:	ment / Classes 8.1	J. / pail plut	1.0	nature an	d date:					
L		nsal / Barry Med	ak / Bill BISHO	P							
Plea	se print or type.										

APPENDIX F Laboratory Reports

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

> Laboratory Director's Name: Mark Noorani

> > Client: Ninyo & Moore

Laboratory Reference: NAM 27693

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 2/20/2023

Date Reported: 3/1/2023

Chain of Custody Received: 🔽

Analytical Method: 8015B, 8081A, 8260B, 8270C, 6010B, 7471A,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B2-0.5	27693-001	2/20/2023	2/18/2023	Soil
B2-2.5	27693-002	2/20/2023	2/18/2023	Soil
B1-0.5	27693-003	2/20/2023	2/18/2023	Soil
B1-2.5	27693-004	2/20/2023	2/18/2023	Soil
B3-0.5	27693-005	2/20/2023	2/18/2023	Soil
B3-2.5	27693-006	2/20/2023	2/18/2023	Soil
B4-0.5	27693-007	2/20/2023	2/18/2023	Soil
B4-2.5	27693-008	2/20/2023	2/18/2023	Soil
B22-0.5	27693-009	2/20/2023	2/18/2023	Soil
B22-2.5	27693-010	2/20/2023	2/18/2023	Soil
B22-5	27693-011	2/20/2023	2/18/2023	Soil
B42-2.5	27693-012	2/20/2023	2/18/2023	Soil
B42-5	27693-013	2/20/2023	2/18/2023	Soil
B41-2.5	27693-014	2/20/2023	2/18/2023	Soil
B41-5	27693-015	2/20/2023	2/18/2023	Soil
B40-2.5	27693-016	2/20/2023	2/18/2023	Soil
B5-0.5	27693-017	2/20/2023	2/18/2023	Soil
B5-2.5	27693-018	2/20/2023	2/18/2023	Soil
B6-0.5	27693-019	2/20/2023	2/18/2023	Soil
B6-2.5	27693-020	2/20/2023	2/18/2023	Soil
B40-5	27693-021	2/20/2023	2/18/2023	Soil
B8-05	27693-022	2/20/2023	2/18/2023	Soil
B8-2.5	27693-023	2/20/2023	2/18/2023	Soil
B7-0.5	27693-024	2/20/2023	2/18/2023	Soil
B7-2.5	27693-025	2/20/2023	2/18/2023	Soil
B12-0.5	27693-026	2/20/2023	2/18/2023	Soil
B12-2.5	27693-027	2/20/2023	2/18/2023	Soil
B11-0.5	27693-028	2/20/2023	2/18/2023	Soil
B11-2.5	27693-029	2/20/2023	2/18/2023	Soil
B9-0.5	27693-030	2/20/2023	2/18/2023	Soil
B9-2.5	27693-031	2/20/2023	2/18/2023	Soil
B13-0.5	27693-032	2/20/2023	2/18/2023	Soil
B13-2.5	27693-033	2/20/2023	2/18/2023	Soil
B14-0.5	27693-034	2/20/2023	2/18/2023	Soil
B14-2.5	27693-035	2/20/2023	2/18/2023	Soil
B17-0.5	27693-036	2/20/2023	2/18/2023	Soil
B17-2.5	27693-037	2/20/2023	2/18/2023	Soil
B15-0.5	27693-038	2/20/2023	2/18/2023	Soil

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B15-2.5	27693-039	2/20/2023	2/18/2023	Soil
B16-0.5	27693-040	2/20/2023	2/18/2023	Soil
B16-205	27693-041	2/20/2023	2/18/2023	Soil
B18-0.5	27693-042	2/20/2023	2/18/2023	Soil
B18-2.5	27693-043	2/20/2023	2/18/2023	Soil
B10-0.5	27693-044	2/20/2023	2/18/2023	Soil
B10-2.5	27693-045	2/20/2023	2/18/2023	Soil
Composite 1	27693-046	2/20/2023	2/18/2023	Soil
Composite 2	27693-047	2/20/2023	2/18/2023	Soil
Composite 3	27693-048	2/20/2023	2/18/2023	Soil
Composite 4	27693-049	2/20/2023	2/18/2023	Soil
Composite 5	27693-050	2/20/2023	2/18/2023	Soil
Composite 6	27693-051	2/20/2023	2/18/2023	Soil
Composite 7	27693-052	2/20/2023	2/18/2023	Soil
Composite 8	27693-053	2/20/2023	2/18/2023	Soil
Composite 9	27693-054	2/20/2023	2/18/2023	Soil
Composite 10	27693-055	2/20/2023	2/18/2023	Soil
Composite 11	27693-056	2/20/2023	2/18/2023	Soil
Composite 12	27693-057	2/20/2023	2/18/2023	Soil

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Extractable Fuel Hydrocarbons (EPA 8015B)

	Extraotable	er uer riyaroc	Janbons (En F	10010B)			
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B42-2.5	27693-012	2/20/2023 16:11	2/18/2023 9:58	2/22/2023 11:30	2/22/2023 20:02	Soil	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*		
DROs	<10		Octa	cosane	106		
Dilution Factor: 1			* Acc	c Recovery: 4	0-160 %		
Data Qualifiers: None							
B42-2.5	27693-012	2/20/2023	2/18/2023	2/22/2023	2/22/2023	Soil	
		16:11	9:58	11:30	20:02		
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*		
MROs	67		Octa	cosane	106		
Dilution Factor: 1			* Acc	c Recovery: 4	0-160 %		
Data Qualifiers: None							
B41-2.5	27693-014	2/20/2023	2/18/2023	2/22/2023	2/22/2023	Soil	
		16:11	10:11	11:30	20:46		
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*		
DROs	14		Octa	cosane	100		
Dilution Factor: 1			* Acc	c Recovery: 4	0-160 %		
Data Qualifiers: None							
B41-2.5	27693-014	2/20/2023	2/18/2023	2/22/2023	2/22/2023	Soil	
		16:11	10:11	11:30	20:46		
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*		
MROs	75		Octa	cosane	100		
Dilution Factor: 1			* Acc	c Recovery: 4	0-160 %		
Data Qualifiers: None							
B40-2.5	27693-016	2/20/2023	2/18/2023	2/22/2023	2/22/2023	Soil	
		16:11	10:39	11:30	21:29		
ANALYTE	mg/kg		Surre	ogate:	% RC*		
DROs	<10	Octacosane 103					
Dilution Factor: 1			* Acc	c Recovery: 4	0-160 %		
Data Qualifiers: None							

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Extractable Fuel Hydrocarbons (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B40-2.5	27693-016	2/20/2023 16:11	2/18/2023 10:39	2/22/2023 11:30	2/22/2023 21:29	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	140		Octa	cosane	103	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery: 4	0-160 %	
Method Blank	MBRC0222231			2/22/2023 11:30	2/22/2023 15:00	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	<10		Octa	cosane	103	
Dilution Factor: 1 Data Qualifiers: None			* Acc	Recovery: 4	0-160 %	
Method Blank	MBRC0222231			2/22/2023 11:30	2/22/2023 15:00	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	<50		Octa	cosane	103	
Dilution Factor: 1 Data Qualifiers: None			* Acc	Recovery: 4	0-160 %	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B42-2.5	27693-012	2/20/2023 16:11	2/18/2023 9:58	2/18/2023 9:58	2/21/2023 18:23	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α -Trifluorotolu	iene 94	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B41-2.5	27693-014	2/20/2023 16:11	2/18/2023 10:11	2/18/2023 10:11	2/21/2023 18:43	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α -Trifluorotolu	iene 102	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B40-2.5	27693-016	2/20/2023 16:11	2/18/2023 10:39	2/18/2023 10:39	2/21/2023 19:02	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α -Trifluorotolu	iene 75	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
Method Blank	MBLY0221231			2/21/2023 12:00	2/21/2023 12:51	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 113	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample	Date Received	Date Sampled	Date Extracted	Dat Analy	-	Matrix
Composite 1	27693-046		2/20/2023	2/18/2023	2/21/2023	2/24/2	2023	Soil
			16:11		10:30	12:1	19	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:		% RC*	
Aldrin	309-00-2	<8.0			Decachlorobip	honyl	75	
alpha-BHC	319-84-6	<20			Decachiorobip	пепуі	75	
beta-BHC	319-85-7	<20		,	* Acceptable F	ecover.	/· 35-130) %
gamma-BHC (Lindane)	58-89-9	<20			7.000ptable 1	1000 v 01 y	. 00 100	, ,0
delta-BHC	319-86-8	<40						
Chlordane	57-74-9	<120		<u> </u>	Dilution Factor	<u>:</u> 4		
4,4'-DDD	72-54-8	<40			Data Qualifiers	are: D1		
4,4'-DDE	72-55-9	<20			Data Gaamore	<u></u> ,		
4,4'-DDT	50-29-3	<40						
Dieldrin	60-57-1	<8.0						
Endosulfan I	959-98-8	<40						
Endosulfan II	33213-65-9	<20						
Endosulfan sulfate	1031-07-8	<40						
Endrin	72-20-8	<40						
Endrin aldehyde	7421-93-4	<40						
Endrin ketone	53494-70-5	<20						
Heptachlor	76-44-8	<8.0						
Heptachlor epoxide	1024-57-3	<20						
Methoxychlor	72-43-5	<40						
Toxaphene	8001-35-2	<160						

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Composite 2	27693-047		2/20/2023	2/18/2023	2/21/2023	2/24/2023	Soil
			16:11		10:30	12:05	
<u>ANALYTE</u>	CAS#	μg/kg		<u> </u>	Surrogate:	<u>% F</u>	IC*
Aldrin	309-00-2	<2.0			Dagaablarabia	ا المعام	
alpha-BHC	319-84-6	< 5.0		ļ	Decachlorobip	henyl 8 ⁻	
beta-BHC	319-85-7	< 5.0		,	* Acceptable F	Recovery: 35	-130 %
gamma-BHC (Lindane)	58-89-9	< 5.0			7.000ptable 1	.00010.3.00	70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30		<u> </u>	Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10		1	Data Qualifiers	: None	
4,4'-DDE	72-55-9	< 5.0		-		<u></u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	< 5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

		•		•	•		
Client Sample ID		Sample ımber	Date Received	Date Sampled	Date Extracted	Date Analyze	d Matrix
Composite 3	276	93-048	2/20/2023	2/18/2023	2/21/2023	2/24/202	3 Soil
			16:11		10:30	12:34	
<u>ANALYTE</u>	CAS#	μg/kg		5	Surrogate:	<u>%</u>	RC*
Aldrin	309-00-2	<8.0			Dagashlarahin	honyl	74
alpha-BHC	319-84-6	<20		ļ	Decachlorobip	пепу	74
beta-BHC	319-85-7	<20		,	* Acceptable F	Recovery: 3	85-130 %
gamma-BHC (Lindane)	58-89-9	<20			7.000ptable 1	looovory. c	70 100 70
delta-BHC	319-86-8	<40					
Chlordane	57-74-9	<120		<u> </u>	Dilution Factor	<u>:</u> 4	
4,4'-DDD	72-54-8	<40			Data Qualifiers	: D1.	
4,4'-DDE	72-55-9	<20		. .	Data Gaamor	<u></u> ,	
4,4'-DDT	50-29-3	<40					
Dieldrin	60-57-1	<8.0					
Endosulfan I	959-98-8	<40					
Endosulfan II	33213-65-9	<20					
Endosulfan sulfate	1031-07-8	<40					
Endrin	72-20-8	<40					
Endrin aldehyde	7421-93-4	<40					
Endrin ketone	53494-70-5	<20					
Heptachlor	76-44-8	<8.0					
Heptachlor epoxide	1024-57-3	<20					
Methoxychlor	72-43-5	<40					
Toxaphene	8001-35-2	<160					

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Composite 4	276	93-049	2/20/2023	2/18/2023	2/21/2023	2/24/2023	Soil
			16:11		10:30	12:48	
ANALYTE	CAS#	<u>μg/kg</u>			Surrogate:	% RC*	
Aldrin	309-00-2	<2.0			Daaaalaaalaa	hand 77	
alpha-BHC	319-84-6	<5.0			Decachlorobip	henyl 77	
beta-BHC	319-85-7	< 5.0			* Accentable F	Recovery: 35-13	80 %
gamma-BHC (Lindane)	58-89-9	< 5.0			Acceptable 1	iccovery. oo Te	70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	s: None	
4,4'-DDE	72-55-9	< 5.0			Data Gaamore	<u></u> 110110	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Composite 5	27693-050		2/20/2023	2/18/2023	2/21/2023	2/24/2023	Soil
			16:11		10:30	13:03	
<u>ANALYTE</u>	CAS#	μg/kg		9	Surrogate:	<u>% F</u>	<u> </u>
Aldrin	309-00-2	<2.0			Dagaablarabia	henvl 7	4
alpha-BHC	319-84-6	<5.0			Decachlorobip	nenyi 7	4
beta-BHC	319-85-7	< 5.0		*	* Acceptable F	Recovery: 35	-130 %
gamma-BHC (Lindane)	58-89-9	< 5.0			7.000ptable 1	.000 vo. y . 00	700 70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30		<u>.</u>	Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10		1	Data Qualifiers	: None	
4,4'-DDE	72-55-9	< 5.0		·=	Data Gaainore	<u></u> 110110	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	< 5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample mber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Composite 6	27693-051		2/20/2023	2/18/2023	2/21/2023	2/24/2023	Soil
			16:11		10:30	13:17	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% RC*</u>	
Aldrin	309-00-2	<2.0			Decachlorobip	henyl 73	
alpha-BHC	319-84-6	< 5.0			Decacillolobip	nenyi 75	
beta-BHC	319-85-7	< 5.0			* Acceptable F	Recovery: 35-13	0 %
gamma-BHC (Lindane)	58-89-9	<5.0			/ toooptable !	.0007017100 10	0 70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	: None	
4,4'-DDE	72-55-9	<5.0			<u> </u>	<u></u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	< 5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

		•		•	•			
Client Sample ID		Sample ımber	Date Received	Date Sampled	Date Extracted	Date Analyze	d Matrix	
Composite 7	27693-052		2/20/2023	2/18/2023	2/21/2023	2/24/202	3 Soil	
			16:11		10:30 13:32			
<u>ANALYTE</u>	CAS#	μg/kg		<u> </u>	Surrogate:	<u>%</u>	RC*	
Aldrin	309-00-2	<2.0			Doggoblorobin	honyl	75	
alpha-BHC	319-84-6	< 5.0		ļ	Decachlorobip	пепу	75	
beta-BHC	319-85-7	< 5.0		,	* Acceptable F	Recovery: 3	5-130 %	
gamma-BHC (Lindane)	58-89-9	< 5.0			7.000ptable 1	1000 V 01 y . C	70 70	
delta-BHC	319-86-8	<10						
Chlordane	57-74-9	<30		<u>.</u>	Dilution Factor	<u>:</u> 1		
4,4'-DDD	72-54-8	<10			Data Qualifiers	: None		
4,4'-DDE	72-55-9	< 5.0		. .	Data Gaaiiioi	<u></u> 110110		
4,4'-DDT	50-29-3	<10						
Dieldrin	60-57-1	<2.0						
Endosulfan I	959-98-8	<10						
Endosulfan II	33213-65-9	< 5.0						
Endosulfan sulfate	1031-07-8	<10						
Endrin	72-20-8	<10						
Endrin aldehyde	7421-93-4	<10						
Endrin ketone	53494-70-5	< 5.0						
Heptachlor	76-44-8	<2.0						
Heptachlor epoxide	1024-57-3	< 5.0						
Methoxychlor	72-43-5	<10						
Toxaphene	8001-35-2	<40						

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample ımber	Date Received	Date Sampled	Date Extracted	Date Analyz	
Composite 8	276	93-053	2/20/2023	2/18/2023	2/21/2023	2/24/20	23 Soi
			16:11		10:30	13:47	7
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	9	<u> 6 RC*</u>
Aldrin	309-00-2	<2.0			Decachlorobip	honyl	76
alpha-BHC	319-84-6	< 5.0			Decacrilorobip	пепу	76
beta-BHC	319-85-7	< 5.0		:	* Acceptable F	Recovery:	35-130 %
gamma-BHC (Lindane)	58-89-9	< 5.0			, tocoptable !	.00010.j.	00 100 70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30		<u> </u>	Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers: None		
4,4'-DDE	72-55-9	< 5.0		•	<u> </u>	<u></u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample mber	Date Received	Date Sampled	Date Extracted	Date Analyzed	d Matrix
Composite 9	276	93-054	2/20/2023	2/18/2023	3 2/21/2023 2/24/2023 S		
			16:11		10:30	14:01	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>%</u>	RC*
Aldrin	309-00-2	<10			Decachlorobip	honyl 7	72
alpha-BHC	319-84-6	<25			Decacillolobip	il c ilyi <i>i</i>	2
beta-BHC	319-85-7	<25			* Acceptable F	Recovery: 3	5-130 %
gamma-BHC (Lindane)	58-89-9	<25			/ toooptable !	.00010.7.0	0 100 70
delta-BHC	319-86-8	<50					
Chlordane	57-74-9	<150			Dilution Factor	<u>:</u> 5	
4,4'-DDD	72-54-8	<50			Data Qualifiers: D1,		
4,4'-DDE	72-55-9	<25			Data adamiore	<u></u>	
4,4'-DDT	50-29-3	<50					
Dieldrin	60-57-1	<10					
Endosulfan I	959-98-8	<50					
Endosulfan II	33213-65-9	<25					
Endosulfan sulfate	1031-07-8	<50					
Endrin	72-20-8	<50					
Endrin aldehyde	7421-93-4	<50					
Endrin ketone	53494-70-5	<25					
Heptachlor	76-44-8	<10					
Heptachlor epoxide	1024-57-3	<25					
Methoxychlor	72-43-5	<50					
Toxaphene	8001-35-2	<200					

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample mber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Composite 10	276	93-055	2/20/2023	2/18/2023	2/21/2023	2/24/2023	Soil
			16:11		10:30	14:16	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% RC</u>	*
Aldrin	309-00-2	<2.0			Decachlorobip	henyl 73	
alpha-BHC	319-84-6	< 5.0			Decacrilorobip	ilellyl 73	
beta-BHC	319-85-7	< 5.0			* Acceptable F	Recovery: 35-1	30 %
gamma-BHC (Lindane)	58-89-9	<5.0			/ toooptable !		00 70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers: None		
4,4'-DDE	72-55-9	< 5.0			Data Quamore	<u></u> . 10110	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	< 5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample mber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
Composite 11	276	93-056	2/20/2023	2/18/2023	/18/2023 2/21/2023 2/24/2023			
			16:11		10:30	14:30		
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% RC</u> *	t -	
Aldrin	309-00-2	<10			Decachlorobip	henyl 75		
alpha-BHC	319-84-6	<25			Decacrilorobip	nenyi 75		
beta-BHC	319-85-7	<25			* Acceptable F	Recovery: 35-13	30 %	
gamma-BHC (Lindane)	58-89-9	<25			/ toooptable 1	.0001017.00 10	70	
delta-BHC	319-86-8	<50						
Chlordane	57-74-9	<150			Dilution Factor	<u>:</u> 5		
4,4'-DDD	72-54-8	<50			Data Qualifiers: D1,			
4,4'-DDE	72-55-9	<25			<u> </u>	<u>-</u>		
4,4'-DDT	50-29-3	<50						
Dieldrin	60-57-1	<10						
Endosulfan I	959-98-8	<50						
Endosulfan II	33213-65-9	<25						
Endosulfan sulfate	1031-07-8	<50						
Endrin	72-20-8	<50						
Endrin aldehyde	7421-93-4	<50						
Endrin ketone	53494-70-5	<25						
Heptachlor	76-44-8	<10						
Heptachlor epoxide	1024-57-3	<25						
Methoxychlor	72-43-5	<50						
Toxaphene	8001-35-2	<200						

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Dat Analy		Matrix
Composite 12	276	93-057	2/20/2023	2/18/2023	2/21/2023	2/24/2	2023	Soil
			16:11		10:30	14:4	45	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:		% RC*	
Aldrin	309-00-2	<2.0			Decachlorobip	honyl	74	
alpha-BHC	319-84-6	< 5.0			Decacrilorobip	пепу	74	
beta-BHC	319-85-7	< 5.0			* Acceptable F	Recovery	v: 35-130	1 %
gamma-BHC (Lindane)	58-89-9	< 5.0			scopiasio i		,	. , 5
delta-BHC	319-86-8	<10						
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1		
4,4'-DDD	72-54-8	<10			Data Qualifiers: None			
4,4'-DDE	72-55-9	< 5.0			<u> </u>	<u></u>		
4,4'-DDT	50-29-3	<10						
Dieldrin	60-57-1	<2.0						
Endosulfan I	959-98-8	<10						
Endosulfan II	33213-65-9	< 5.0						
Endosulfan sulfate	1031-07-8	<10						
Endrin	72-20-8	<10						
Endrin aldehyde	7421-93-4	<10						
Endrin ketone	53494-70-5	<5.0						
Heptachlor	76-44-8	<2.0						
Heptachlor epoxide	1024-57-3	< 5.0						
Methoxychlor	72-43-5	<10						
Toxaphene	8001-35-2	<40						

Lab Reference #: NAM 27693

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyze	ed Matrix
Method Blank	MBV\	MBVV0221231 2/21/2023 2/24/2				2/24/202	23 Soil
					10:30	10:52	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>%</u>	6 RC*
Aldrin	309-00-2	<2.0			Dagaablarahin	hanul	0.0
alpha-BHC	319-84-6	< 5.0			Decachlorobip	пепу	86
beta-BHC	319-85-7	< 5.0			* Acceptable F	Recovery:	35-130 %
gamma-BHC (Lindane)	58-89-9	< 5.0			/toocptable i	iccovciy.	00 100 70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers: None		
4,4'-DDE	72-55-9	<5.0			Data Qualificit	<u></u> 110110	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	< 5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

Lab Reference #: NAM 27693

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Volatile Organics by GC/MS (EPA 8260B)

	1 1 0	D-1-	D-+-	, Det-	Dete	
Client Sample ID	Lab Sampl Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B42-2.5	27693-01	2 2/20/2023	3 2/18/2023	2/18/2023	2/22/2023	Soil
		16:11	9:58	9:58	14:56	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	< 5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	< 5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	< 5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	< 5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror	methane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
		ceptable % RC	Dilution Fa	actor: 1		
			· · · · · · · · · · · · · · · · · · ·			
-	113	65-130 %	Data Qual	ifiers: None		
Dibromofluoromethane: Toluene-d8:	113 83	65-130 % 58-130 %	<u>Data Qual</u>	<u>ifiers:</u> None		

Lab Reference #: NAM 27693

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B41-2.5	27693-014	2/20/2023		2/18/2023	2/22/2023	Soil
		16:11	10:11	10:11	15:17	
<u>ANALYTE</u>	CAS#	<u>μg/kg</u>	<u>ANALYTE</u>		<u>CAS #</u>	<u>μg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle		10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta		87-68-3	< 5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ther (MTBE)	1634-04-4	< 5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	< 5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	< 5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	oenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	oenzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	< 5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	oropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	;	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
· ·	10061-01-5	<2.5				
		ceptable % RC	Dilution Fa	ctor: 1		
Dibromofluoromethane:	110	65-130 %		ifiers: None		
Toluene-d8:	86	58-130 %		5.5.		
4-Bromofluorobenzene:	76	40-135 %				

Lab Reference #: NAM 27693

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B40-2.5	27693-016	6 2/20/2020	3 2/18/2023	2/18/2023	2/22/2023	Soil
		16:11	10:39	10:39	15:39	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichlo	ropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl ethe	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	er (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	diene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ne	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolue	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ther (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlor	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzen	ie	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	< 5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorob	enzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorob	enzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroe		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroe	thane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	•	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoron	nethane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichlorop	ropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyll	penzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyll	oenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes		179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:		ceptable % RC	Dilution Fa	ctor: 1		
Dibromofluoromethane:	113	65-130 %		fiers: None		
Toluene-d8:	84	58-130 %				
4-Bromofluorobenzene:	73	40-135 %				

Lab Reference #: NAM 27693

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBHT022123		. Gampioa	2/21/2023	2/22/2023	Soil
Welliou Dialik	WIDI 11 022 123	0		15:00	10:55	3011
ANALYTE	CAS#	μg/kg	ANALYTE	10.00	CAS #	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	(= : = =)	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze		98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu		99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e		1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo		75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzer	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach		79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe		127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	oenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	oenzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroe	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror	methane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	oropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acce	ptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	111 6	65-130 %	Data Qual	ifiers: None		
Toluene-d8:		58-130 %				
4-Bromofluorobenzene:		10-135 %				

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sa Num		Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B2-0.5	27693	3-001	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
			16:11	8:50	10:20	17:58	
<u>ANALYTE</u>	CAS#	μg/kg	l		Surrogate:	<u>% R</u>	<u>C*</u>
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 68	3
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13-	182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Factor	<u>or:</u> 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie	rs: None	
Benzo(k)fluoranthene:	207-08-9	<50			Data Quanio	10.	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
DI II	05 04 0	<50					
Phenanthrene:	85-01-8	<50					
	85-01-8 193-39-5	<50					
Indeno(1,2,3-cd)pyrene: Naphthalene:							
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
Indeno(1,2,3-cd)pyrene:	193-39-5	<50 <50	2/20/2023 16:11	2/18/2023 9:23	2/21/2023 10:20	2/21/2023 18:30	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	16:11				
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE	193-39-5 91-20-3 27693 CAS #	<50 <50 3-005 <u>µg/kg</u>	16:11		10:20 Surrogate:	18:30 <u>% F</u>	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9	<50 <50 3-005 μg/kg <50	16:11		10:20	18:30 <u>% F</u>	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8	<50 <50 3-005 μg/kg <50 <50	16:11		10:20 <u>Surrogate:</u> Nitrobenzene	18:30 <u>% F</u>	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7	<50 <50 3-005 μg/kg <50 <50 <50	16:11		10:20 <u>Surrogate:</u> Nitrobenzene	18:30 <u>% F</u> 9-d5 74	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3	<50 <50 3-005 μg/kg <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable	18:30 <u>% F</u> -d5 Recovery: 13-	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	<50 <50 3-005 μg/kg <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2	<50 <50 3-005 μg/kg <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9	<50 <50 3-005 4-005 50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 3-005 4-005 50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benza(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 3-005 4-005 <50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(b)fluoranthene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	<50 <50 3-005 4-005 <50 <50 <50 <50 <50 <50 <50 <60	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene:	193-39-5 91-20-3 27693 27693 27693 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0	<50 <50 3-005 450 <50 <50 <50 <50 <50 <60 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <-005 -005 -50 <50 <50 <50 <50 <60 <65 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene: Fluorene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0 86-73-7	<50 <50 <50 <-005 <50 <50 <50 <50 <50 <60 <65 <65 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B3-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <-005 -005 -50 <50 <50 <50 <50 <60 <65 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	18:30 % F -d5 74 Recovery: 13- or: 1	<u>C*</u>

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sa Num		Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B5-0.5	27693	3-017	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
			16:11	11:02	10:20	19:02	
<u>ANALYTE</u>	CAS#	μg/kg	Į.		Surrogate:	<u>% R</u>	<u>C*</u>
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 10	2
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13-	182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Factor	or: 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie		
Benzo(k)fluoranthene:	207-08-9	<50			Data Qualifie	is. None	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Phenanthrene:	85-01-8	<50					
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50					
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
Indeno(1,2,3-cd)pyrene:	193-39-5	<50 <50	2/20/2023 16:11	2/18/2023 12:48	2/21/2023 10:20	2/21/2023 19:33	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	16:11				
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE	193-39-5 91-20-3 27693 CAS #	<50 <50 3-022 <u>µg/kg</u>	16:11		10:20 Surrogate:	19:33 <u>% R</u>	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9	<50 <50 3-022 μg/kg <50	16:11		10:20	19:33 <u>% R</u>	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8	<50 <50 3-022 μg/kg <50 <50	16:11		10:20 <u>Surrogate:</u> Nitrobenzene	19:33 <u>% R</u>	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7	<50 <50 3-022 μg/kg <50 <50 <50	16:11		10:20 <u>Surrogate:</u> Nitrobenzene	19:33 <u>% R</u> 9-d5 10	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3	<50 <50 3-022 μg/kg <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable	19:33 <u>% R</u> -d5 10 Recovery: 13-	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	<50 <50 3-022 <u>µg/kg</u> <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2	<50 <50 3-022 μg/kg <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9	<50 <50 3-022 μg/kg <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 3-022 μg/kg <50 <50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 3-022 μg/kg <50 <50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(b)fluoranthene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	<50 <50 3-022 μg/kg <50 <50 <50 <50 <50 <50 <50 <50 <60	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene:	193-39-5 91-20-3 27693 27693 27693 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0	<50 <50 3-022 2-022 250 <50 <50 <50 <50 <50 <50 <60 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <-022 -022 <50 <50 <50 <50 <50 <50 <60 <65 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene: Fluorene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0 86-73-7	<50 <50 <-022 -022 <50 <50 <50 <50 <50 <60 <65 <65 <55	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1
Indeno(1,2,3-cd)pyrene: Naphthalene: B8-05 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <-022 -022 <50 <50 <50 <50 <50 <50 <60 <65 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	19:33 % R -d5 10 Recovery: 13- or: 1	<u>C*</u> 1

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sa Num		Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B12-0.5	27693	-026	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
			16:11	13:02	10:20	17:26	
<u>ANALYTE</u>	CAS#	μg/kg	l		Surrogate:	<u>% R</u>	<u>C*</u>
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 10	2
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13-	182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Factor	<u>or:</u> 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie	rs: None	
Benzo(k)fluoranthene:	207-08-9	<50					
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Disconnections of the second	85-01-8	<50					
Phenanthrene:	03-01-0	100					
Indeno(1,2,3-cd)pyrene:	193-39-5	<50					
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
Indeno(1,2,3-cd)pyrene:	193-39-5	<50 <50	2/20/2023 16:11	2/18/2023 13:20	2/21/2023 10:20	2/21/2023 20:06	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	16:11				
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5	193-39-5 91-20-3 27693	<50 <50 -030 μg/kg	16:11		10:20	20:06 <u>% R</u>	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene:	193-39-5 91-20-3 27693 CAS #	<50 <50	16:11		10:20 Surrogate: Nitrobenzene	20:06 <u>% R</u> e-d5 93	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9	<50 <50 -030 μg/kg <50	16:11		10:20 Surrogate: Nitrobenzene	20:06 <u>% R</u>	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7	<50 <50 -030 μg/kg <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene	20:06 <u>% R</u> e-d5 93	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8	<50 <50 -030 μg/kg <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable	20:06 % R -d5 93 Recovery: 13-	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3	<50 <50 -030 -2030 -200 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	<50 <50 -030 -030 μg/kg <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2	<50 <50 -030 -030 -50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9	<50 <50 -030 -030 -50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 -030 -50 <50 <50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	193-39-5 91-20-3 27693 27693 27693 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 -030 -50 <50 <50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(b)fluoranthene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	<50 <50 -030 -50 <50 <50 <50 <50 <50 <50 <50 <60	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <-030 -030 <50 <50 <50 <50 <50 <50 <60 <65 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0 86-73-7	<50 <50 <-030 -030 <50 <50 <50 <50 <50 <60 <65 <65 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B9-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene: Fluorene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <-030 -030 <50 <50 <50 <50 <50 <50 <60 <65 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	20:06 % R -d5 93 Recovery: 13- or: 1	<u>C*</u>

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sa Num		Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B14-0.5	27693	-034	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
			16:11	13:40	10:20	20:37	
<u>ANALYTE</u>	CAS#	μg/kg	I		Surrogate:	<u>% R</u>	<u>C*</u>
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 75	5
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13-	182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Factor	<u>or:</u> 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie	rs: None	
Benzo(k)fluoranthene:	207-08-9	<50			<u>Bata Quanno</u>	10.	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Phenanthrene:	85-01-8	<50					
Phenanthrene:	85-01-8 193-39-5	<50 <50					
Phenanthrene: Indeno(1,2,3-cd)pyrene:	193-39-5	<50 <50	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	2/20/2023 16:11	2/18/2023 13:57	2/21/2023 10:20	2/21/2023 21:10	Soil
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	16:11				
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5	193-39-5 91-20-3 27693	<50 <50	16:11		10:20	21:10 <u>% R</u>	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE	193-39-5 91-20-3 27693 CAS #	<50 <50 -038 <u>µg/kc</u>	16:11		10:20 Surrogate: Nitrobenzene	21:10 <u>% R</u> 9-d5 7€	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9	<50 <50 -038 <u>µg/kg</u> <50	16:11		10:20 Surrogate: Nitrobenzene	21:10 <u>% R</u>	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8	<50 <50 3-038 μg/kg <50 <50	16:11		10:20 Surrogate: Nitrobenzene	21:10 <u>% R</u> 9-d5 7€	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7	<50 <50 -038 μg/kg <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable	21:10 <u>% R</u> -d5 Recovery: 13-	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3	<50 <50 -038 μg/kg <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	<50 <50 -038 -038 -250 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene:	193-39-5 91-20-3 27693 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2	<50 <50 -038 -2038 -50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9	<50 <50 -038 μg/kg <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(b,fluoranthene: Benzo(g,h,i)perylene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 -038 -038 -50 <50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	193-39-5 91-20-3 27693 27693 27693 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 3-038 4-038 50 <50 <50 <50 <50 <50 <50 <50 <50	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	<50 <50 -038 -50 <50 <50 <50 <50 <50 <50 <50 <60	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene:	193-39-5 91-20-3 27693 27693 27693 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0	<50 <50 3-038 -038 -50 <50 <50 <50 <50 <50 <60 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 27693 27693 27693 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <-038 -038 -50 <50 <50 <50 <50 <50 <60 <65 <65	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>
Phenanthrene: Indeno(1,2,3-cd)pyrene: Naphthalene: B15-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene: Fluorene:	193-39-5 91-20-3 27693 27693 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0 86-73-7	<50 <50 <-038 μg/kg <50 <50 <50 <50 <50 <60 <65 <65 <55	16:11		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	21:10 % R e-d5 Recovery: 13- or: 1	<u>C*</u>

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sa Numl		Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
·				•		•	
B18-0.5	27693	3-042	2/20/2023	2/18/2023	2/21/2023	2/21/2023	Soil
			16:11	14:12	10:20	21:42	
<u>ANALYTE</u>	CAS#	μg/kg	l		Surrogate:	<u>% I</u>	RC*
Acenaphthene:	83-32-9	<50			Nitrobenzene	-d5 6	7
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13	-182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Factor	or: 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie		
Benzo(k)fluoranthene:	207-08-9	<50			Data Qualific	13.	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Phenanthrene:	05.01.0	<50					
rnenantinene.	85-01-8	<00					
Indeno(1,2,3-cd)pyrene:	193-39-5	<50					
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50			2/21/2023	2/21/2023	Soil
Indeno(1,2,3-cd)pyrene:	193-39-5	<50 <50			2/21/2023	2/21/2023 14·46	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50			2/21/2023 10:20	2/21/2023 14:46	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50				14:46	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank	193-39-5 91-20-3 MBGS02	<50 <50 221231	ı		10:20	14:46 <u>% I</u>	
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE	193-39-5 91-20-3 MBGS02 CAS #	<50 <50 221231 <u>µg/kg</u>	ı		10:20 <u>Surrogate:</u> Nitrobenzene	14:46 <u>% I</u> -d5 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene:	193-39-5 91-20-3 MBGS02 <u>CAS #</u> 83-32-9	<50 <50 221231 μg/kg <50	ı.		10:20 <u>Surrogate:</u> Nitrobenzene	14:46 <u>% I</u>	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8	<50 <50 221231 μg/kg <50 <50			10:20 <u>Surrogate:</u> Nitrobenzene	14:46 <u>% I</u> -d5 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7	<50 <50 221231 μg/kg <50 <50 <50			10:20 <u>Surrogate:</u> Nitrobenzene	14:46 <u>% I</u> -d5 1 ⁻ Recovery: 13	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3	<50 <50 221231 μg/kg <50 <50 <50 <50			10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	<50 <50 221231 μg/kg <50 <50 <50 <50	<u>I</u>		10:20 Surrogate: Nitrobenzene * Acceptable	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 221231 μg/kg <50 <50 <50 <50 <50 <50 <50			10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 221231 μg/kg <50 <50 <50 <50 <50 <50	l.		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 221231 μg/kg <50 <50 <50 <50 <50 <50 <50			10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 221231 μg/kg <50 <50 <50 <50 <50 <50 <50			10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	<50 <50 221231 ug/kg <50 <50 <50 <50 <50 <50 <50 <50 <60			10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0	<50 <50 221231 ug/kg <50 <50 <50 <50 <50 <50 <60 <65			10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <221231 μg/kg <50 <50 <50 <50 <50 <60 <65 <65			10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17
Indeno(1,2,3-cd)pyrene: Naphthalene: Method Blank ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene: Fluorene:	193-39-5 91-20-3 MBGS02 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0 86-73-7	<50 <50 <221231 ug/kg <50 <50 <50 <50 <50 <60 <65 <65 <50			10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	14:46 <u>% I</u> -d5 Recovery: 13 or: 1	3C* 17

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Lab Sample Number	Date Received	Date Sampl		Matrix			
B2-0.5			27693-001	2/20/2023 16:1	1 2/18/20	23 8:50	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Barium	6010B	84	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Beryllium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Cadmium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Chromium	6010B	12	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Cobalt	6010B	6.9	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Copper	6010B	9.7	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Lead	6010B	17	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Mercury	7471A	0.22	mg/kg	02/21/23 17:00	02/23/23 13:32		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Nickel	6010B	7.1	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Silver	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Vanadium	6010B	28	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
	Zinc	6010B	48	mg/kg	02/21/23 09:40	02/23/23 14:49		1	
31-0.5			27693-003	2/20/2023 16:1	1 2/18/20	9:02	Soil		
	<u>ANALYTE</u>	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 10:15	02/23/23 12:03		1	
	Lead	6010B	5.6	mg/kg	02/21/23 10:15	02/23/23 12:03		1	

Lab Reference #: NAM 27693

Project Name: LAUSD 49th Street PEA

Project #: 211936010

lient Samp	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B3-0.5			27693-005	2/20/2023 16:1	1 2/18/20)23 9:23	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Arsenic	6010B	52	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Barium	6010B	92	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Cadmium	6010B	1.6	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Chromium	6010B	13	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Cobalt	6010B	7.8	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Copper	6010B	12	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Lead	6010B	26	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Mercury	7471A	< 0.10	mg/kg	02/21/23 17:00	02/23/23 13:37		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Nickel	6010B	7.7	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Vanadium	6010B	31	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
	Zinc	6010B	66	mg/kg	02/21/23 09:40	02/23/23 14:52		1	
B4-0.5			27693-007	2/20/2023 16:1	1 2/18/20)23 9:31	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	700	mg/kg	02/21/23 10:15	02/23/23 12:06		1	
	Lead	6010B	14	mg/kg	02/21/23 10:15	02/23/23 12:06		1	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	ole ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B22-0.5			27693-009	2/20/2023 16:	1 2/18/2023 9:38		Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	64	mg/kg	02/21/23 10:15	02/23/23 12:07		1	
	Lead	6010B	40	mg/kg	02/21/23 10:15	02/23/23 12:07		1	
B5-0.5			27693-017	2/20/2023 16:	11 2/18/20	023 11:02	Soil		
	ANALYTE	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Barium	6010B	100	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Beryllium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Cadmium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Chromium	6010B	16	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Cobalt	6010B	10	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Copper	6010B	14	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Lead	6010B	6.0	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 13:39		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Nickel	6010B	9.6	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Vanadium	6010B	39	mg/kg	02/21/23 09:40	02/23/23 14:55		1	
	Zinc	6010B	49	mg/kg	02/21/23 09:40	02/23/23 14:55		1	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

lient Samp	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B6-0.5			27693-019	2/20/2023 16:11 2/18/2023)23 11:11	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 10:15	02/23/23 12:18		1	
	Lead	6010B	4.4	mg/kg	02/21/23 10:15	02/23/23 12:18		1	
B8-05			27693-022	2/20/2023 16:	11 2/18/20	023 12:48	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Barium	6010B	77	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Beryllium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Chromium	6010B	11	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Cobalt	6010B	7.2	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Copper	6010B	9.4	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Lead	6010B	4.8	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 13:41		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Nickel	6010B	6.6	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Vanadium	6010B	27	mg/kg	02/21/23 09:40	02/23/23 14:58		1	
	Zinc	6010B	39	mg/kg	02/21/23 09:40	02/23/23 14:58		1	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

lient Sampl	e ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B7-0.5			27693-024	2/20/2023 16:	2/20/2023 16:11 2/18/2023 12:54		Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 10:15	02/23/23 12:21		1	
	Lead	6010B	28	mg/kg	02/21/23 10:15	02/23/23 12:21		1	
B12-0.5			27693-026	2/20/2023 16:	11 2/18/20	023 13:02	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Barium	6010B	70	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Beryllium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Cadmium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Chromium	6010B	10	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Cobalt	6010B	6.7	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Copper	6010B	9.2	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Lead	6010B	18	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 13:42		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Nickel	6010B	6.4	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Vanadium	6010B	26	mg/kg	02/21/23 09:40	02/23/23 15:01		1	
	Zinc	6010B	42	mg/kg	02/21/23 09:40	02/23/23 15:01		1	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B11-0.5			27693-028	2/20/2023 16:	2/20/2023 16:11 2/18/2023		3 13:07 Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	6.8	mg/kg	02/21/23 10:15	02/23/23 12:23		1	
	Lead	6010B	55	mg/kg	02/21/23 10:15	02/23/23 12:23		1	
B9-0.5			27693-030	2/20/2023 16:	11 2/18/20	023 13:20	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Barium	6010B	74	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Beryllium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Cadmium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Chromium	6010B	9.0	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Cobalt	6010B	6.3	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Copper	6010B	9.0	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Lead	6010B	9.1	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 13:44		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Nickel	6010B	5.9	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Vanadium	6010B	23	mg/kg	02/21/23 09:40	02/23/23 15:04		1	
	Zinc	6010B	39	mg/kg	02/21/23 09:40	02/23/23 15:04		1	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B13-0.5			27693-032	2/20/2023 16:	11 2/18/20	023 13:36	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.2	mg/kg	02/21/23 10:15	02/23/23 12:26		1	
	Lead	6010B	53	mg/kg	02/21/23 10:15	02/23/23 12:26		1	
B14-0.5			27693-034	2/20/2023 16:	11 2/18/20	023 13:40	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Arsenic	6010B	28	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Barium	6010B	110	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Beryllium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Cadmium	6010B	1.2	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Chromium	6010B	19	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Cobalt	6010B	9.1	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Copper	6010B	18	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Lead	6010B	32	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Mercury	7471A	0.10	mg/kg	02/21/23 17:00	02/23/23 13:49		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Nickel	6010B	12	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Vanadium	6010B	36	mg/kg	02/21/23 09:40	02/23/23 15:07		1	
	Zinc	6010B	110	mg/kg	02/21/23 09:40	02/23/23 15:07		1	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B17-0.5			27693-036	2/20/2023 16:	11 2/18/20)23 13:51	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	6.8	mg/kg	02/21/23 10:15	02/23/23 12:28		1	
	Lead	6010B	31	mg/kg	02/21/23 10:15	02/23/23 12:28		1	
B15-0.5			27693-038	2/20/2023 16:	11 2/18/20)23 13:57	Soil		
	ANALYTE	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Arsenic	6010B	5.9	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Barium	6010B	100	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Cadmium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Chromium	6010B	19	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Cobalt	6010B	9.6	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Copper	6010B	16	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Lead	6010B	24	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Mercury	7471A	0.13	mg/kg	02/21/23 17:00	02/23/23 13:51		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Nickel	6010B	13	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Vanadium	6010B	39	mg/kg	02/21/23 09:40	02/23/23 15:10		1	
	Zinc	6010B	79	mg/kg	02/21/23 09:40	02/23/23 15:10		1	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B16-0.5			27693-040	2/20/2023 16:	11 2/18/20	023 14:09	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	7.9	mg/kg	02/21/23 10:15	02/23/23 12:31		1	
	Lead	6010B	92	mg/kg	02/21/23 10:15	02/23/23 12:31		1	
B18-0.5			27693-042	2/20/2023 16:	11 2/18/20)23 14:12	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Barium	6010B	110	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Chromium	6010B	18	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Cobalt	6010B	8.3	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Copper	6010B	13	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Lead	6010B	36	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 13:53		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Nickel	6010B	9.2	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Vanadium	6010B	34	mg/kg	02/21/23 09:40	02/23/23 15:13		1	
	Zinc	6010B	90	mg/kg	02/21/23 09:40	02/23/23 15:13		1	

Lab Reference #: NAM 27693 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample I	D		Lab Sample Number	Date Received	Date Sampl		Matrix		
B10-0.5			27693-044	2/20/2023 16:	11 2/18/20	023 14:20	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	2.6	mg/kg	02/21/23 10:15	02/23/23 12:34		1	
	Lead	6010B	91	mg/kg	02/21/23 10:15	02/23/23 12:34		1	
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBHV0221231	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Barium	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Cadmium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Chromium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Cobalt	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Copper	6010B	<5.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Lead	6010B	<0.80	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221233	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 13:23		1	
MBHV0221231	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Nickel	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Vanadium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Zinc	6010B	<5.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	

Lab Reference #: NAM 27693

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
Method Blank	<						Soil		
MB ID	ANALYTE	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBHV0221232	Arsenic	6010B	<2.0	mg/kg	02/21/23 10:15	02/23/23 11:49		1	
MBHV0221232	Lead	6010B	<0.80	mg/kg	02/21/23 10:15	02/23/23 11:49		1	

QA/QC Report

for

Extactable Fuel Hydrocarbons (EPA 8015B/8015M)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 2/22/2023 11:30 <u>Date of Analysis:</u> 2/22/2023 16:26 <u>Dup Date of Analysis:</u> 2/22/2023 16:48

<u>Laboratory Sample #:</u> 27690-007 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27693

		SPC						ACP	ACP		ĺ
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual	ı
EFH as Diesel	250	1000	989	849	74	60	15	8-193	20		Ì

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Octacosane	146	129		103	100		40-160

Laboratory Control Sample

 Date of Extraction:
 2/22/2023
 11:30

 Date of Analysis:
 2/22/2023
 15:44

 Dup Date of Analysis:
 2/22/2023
 16:05

 Laboratory Sample #:
 RC0222231

 LCS Qualifiers:
 None

	SPC						ACP	ACP	
Analyte	CONC	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
EFH as Diesel	1000	813	744	81	74	9	17-180	42	

QA/QC Report

for

Volatile Fuel Hydrocarbons (EPA 8015B)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 2/21/2023 12:00 <u>Date of Analysis:</u> 2/21/2023 14:08 <u>Dup Date of Analysis:</u> 2/21/2023 14:27

<u>Laboratory Sample #:</u> 27689-001 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27693

		SPC						ACP	ACP	
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
VFH as Gasoline	0.00	0.250	0.240	0.203	96	81	17	20-144	50	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
α - α - α -Trifluorotoluene	100	95		78	104		32-153

Laboratory Control Sample

 Date of Extraction:
 2/21/2023
 12:00

 Date of Analysis:
 2/21/2023
 13:11

 Dup Date of Analysis:
 2/21/2023
 13:35

 Laboratory Sample #:
 LY0221231

 LCS Qualifiers:
 None

SPC **ACP ACP** Analyte CONC LCS **LCSD** %LCS %LCSD **RPD** %LCS RPD Qual VFH as Gasoline 0.250 38-130 0.194 0.235 78 94 19 27

QA/QC Report for

Organochlorine Pesticides (EPA 8081A)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 2/22/2023 9:20 <u>Date of Analysis:</u> 2/24/2023 11:36 <u>Dup Date of Analysis:</u> 2/24/2023 11:50

<u>Laboratory Sample #:</u> 27693-047 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27693

Analyte	R	Spike Conc.	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Aldrin	0.00	20.0	10.3	9.95	51	50	3	14-130	28	
alpha-BHC	0.00	20.0	10.2	10.1	51	50	1	13-130	29	
beta-BHC	0.00	20.0	11.7	11.4	58	57	3	13-140	26	
gamma-BHC (Lindane)	0.00	20.0	10.8	10.6	54	53	2	15-130	26	
4,4'-DDD	0.00	20.0	15.5	15.5	77	77	0	18-169	20	
4,4'-DDE	0.00	20.0	14.5	14.8	73	74	2	30-165	20	
4,4'-DDT	0.00	20.0	16.0	15.9	80	79	1	34-170	20	
delta-BHC	0.00	20.0	12.9	13.0	64	65	1	18-143	27	
Dieldrin	0.00	20.0	12.7	12.9	63	64	2	24-147	20	
Endosulfan I	0.00	20.0	11.9	12.0	59	60	1	13-158	23	
Endosulfan II	0.00	20.0	12.9	12.6	64	63	2	19-143	29	
Endosulfan sulfate	0.00	20.0	11.9	11.2	59	56	6	D-158	59	
Endrin	0.00	20.0	13.7	13.9	69	69	1	26-156	25	
Endrin Aldehyde	0.00	20.0	10.1	9.20	50	46	9	D-148	59	
Endrin ketone	0.00	20.0	11.4	10.9	57	54	4	D-147	36	
Heptachlor	0.00	20.0	9.79	9.43	49	47	4	10-130	30	
Heptachlor epoxide	0.00	20.0	11.5	11.6	57	58	1	19-134	24	
Methoxychlor	0.00	20.0	14.0	14.1	70	71	1	12-165	32	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	84	84		88	79		35-130

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 2/21/2023
 10:30

 Date of Analysis:
 2/24/2023
 11:06

 Dup Date of Analysis:
 2/24/2023
 11:21

 Laboratory Sample #:
 VV0221231

LCS/LCSD Qualifiers: R7,

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Aldrin	20.0	11.6	9.32	58	47	22	7-130	31	
alpha-BHC	20.0	11.6	9.13	58	46	24	10-130	25	
beta-BHC	20.0	12.1	9.84	61	49	21	12-137	23	
gamma-BHC (Lindane)	20.0	11.8	9.40	59	47	23	14-130	22	R7,
4,4'-DDD	20.0	16.2	14.6	81	73	10	25-161	20	
4,4'-DDE	20.0	15.4	12.9	77	64	18	20-154	20	

QA/QC Report

for

Organochlorine Pesticides (EPA 8081A) Reporting Units: ppb

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
4,4'-DDT	20.0	16.9	14.7	84	74	14	26-164	20	
delta-BHC	20.0	13.2	11.6	66	58	13	17-137	24	
Dieldrin	20.0	13.6	11.5	68	57	17	18-138	21	
Endosulfan I	20.0	13.8	10.4	69	52	28	14-142	23	R7,
Endosulfan II	20.0	14.3	13.4	72	67	6	18-148	20	
Endosulfan sulfate	20.0	13.1	13.3	66	67	2	11-159	32	
Endrin	20.0	14.5	12.2	73	61	17	22-141	21	
Endrin Aldehyde	20.0	10.9	10.6	54	53	3	2-140	40	
Endrin ketone	20.0	12.8	12.4	64	62	3	12-145	22	
Heptachlor	20.0	11.3	8.91	56	45	24	5-130	29	
Heptachlor epoxide	20.0	12.4	10.1	62	50	20	14-130	22	
Methoxychlor	20.0	15.4	12.2	77	61	23	29-157	20	R7,

QA/QC Report for

Volatile Organic Compounds (8260B)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 2/22/2023 9:26 <u>Date of Analysis:</u> 2/22/2023 12:23 <u>Dup Date of Analysis:</u> 2/22/2023 12:45

<u>Laboratory Sample #:</u> 27690-006 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27693

		Spike						ACP	ACP	
Analyte	R	Conc.	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
Benzene	0.00	10.0	9.84	9.57	98	96	3	70-138	20	
Chlorobenzene	0.00	10.0	11.0	10.6	110	106	4	70-132	20	
1,1-Dichloroethene	0.00	10.0	6.13	6.29	61	63	3	46-130	20	
Toluene	0.00	10.0	9.84	9.23	98	92	6	70-130	20	
Trichloroethene	0.00	10.0	10.2	9.85	102	99	3	70-135	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	113	111	
Toluene-d8	89	86	
4-Bromofluorobenzene	78	80	

LCS	LCSD	Qual
112	109	
90	84	
86	74	

ACP % RC
65-130
58-130
40-135

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 2/22/2023
 9:26

 Date of Analysis:
 2/22/2023
 11:39

 Dup Date of Analysis:
 2/22/2023
 12:01

 Laboratory Sample #:
 HT0222231

 LCS/LCSD Qualifiers:
 None

	Spike						ACP	ACP	
Analyte	Conc.	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
Benzene	10.0	10.5	9.80	105	98	7	70-134	20	
Chlorobenzene	10.0	11.6	10.8	116	108	7	70-130	20	
1,1-Dichloroethene	10.0	7.24	6.73	72	67	7	48-130	20	
Toluene	10.0	10.3	9.49	103	95	8	70-130	20	
Trichloroethene	10.0	10.9	10.3	109	103	6	70-132	20	

QA/QC Report

for

Semi-Volatile Organic Compounds (8270C)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 2/21/2023 10:20 <u>Date of Analysis:</u> 2/21/2023 16:23 <u>Dup Date of Analysis:</u> 2/21/2023 16:54

Laboratory Sample #: 27693-026

MS/MSD Qualifiers: M2, M2, S1,

Reference #: NAM 27693

Analyte	R	Spike Conc.	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Acenaphthene	0.00	20.0	12.6	12.5	63	63	1	11-138	20	
Acenaphthylene	0.00	20.0	12.1	12.2	61	61	1	54-130	32	
Anthracene	0.00	20.0	10.5	10.3	52	51	2	43-130	30	
Benz(a)anthracene	0.00	20.0	12.7	12.0	63	60	6	42-133	30	
Benzo(a)pyrene	0.00	20.0	12.9	12.5	64	63	3	32-148	30	
Benzo(b)fluoranthene	0.00	20.0	17.5	17.2	88	86	2	42-140	30	
Benzo(g,h,i)perylene	0.00	20.0	14.8	14.4	74	72	3	D-195	30	
Benzo(k)fluoranthene	0.00	20.0	19.4	20.5	97	102	6	25-146	30	
Chrysene	0.00	20.0	14.7	14.6	74	73	1	44-140	35	
Dibenz(a,h)anthracene	0.00	20.0	13.5	13.2	68	66	2	D-200	35	
Fluoranthene	0.00	20.0	13.6	13.2	68	66	3	43-130	30	
Fluorene	0.00	20.0	11.9	11.7	59	58	2	70-130	30	M2,
Indeno(1,2,3-cd)pyrene	0.00	20.0	13.7	13.3	69	67	3	D-151	30	
Naphthalene	0.00	20.0	12.0	11.9	60	59	1	36-130	30	
Phenanthrene	0.00	20.0	12.1	11.6	61	58	4	70-130	30	M2,
Pyrene	0.00	20.0	15.8	15.6	79	78	1	25-145	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Nitrobenzene-d5	133	138	✓	145	136	✓	8-134

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 2/21/2023
 10:20

 Date of Analysis:
 2/21/2023
 15:19

 Dup Date of Analysis:
 2/21/2023
 15:51

 Laboratory Sample #:
 GS0221231

 LCS/LCSD Qualifiers:
 L2, S1,

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Acenaphthene	20.0	14.4	13.8	72	69	4	24-137	20	
Acenaphthylene	20.0	14.9	14.0	75	70	6	54-126	32	
Anthracene	20.0	13.4	12.7	67	63	5	43-118	27	
Benz(a)anthracene	20.0	15.0	14.3	75	72	5	42-133	21	

QA/QC Report

for

Semi-Volatile Organic Compounds (8270C) Reporting Units: ppb

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Benzo(a)pyrene	20.0	14.0	13.9	70	69	1	32-148	26	
Benzo(b)fluoranthene	20.0	20.9	19.9	104	100	5	42-140	28	
Benzo(g,h,i)perylene	20.0	16.0	16.1	80	81	1	D-195	30	
Benzo(k)fluoranthene	20.0	19.8	20.4	99	102	3	25-146	22	
Chrysene	20.0	16.5	16.1	82	81	2	44-140	35	
Dibenz(a,h)anthracene	20.0	15.1	15.2	75	76	1	D-200	35	
Fluoranthene	20.0	15.7	15.2	78	76	3	43-121	27	
Fluorene	20.0	14.1	13.2	71	66	7	72-108	20	L2,
Indeno(1,2,3-cd)pyrene	20.0	15.4	15.4	77	77	0	D-151	30	
Naphthalene	20.0	13.6	13.3	68	67	2	36-120	25	
Phenanthrene	20.0	14.4	14.0	72	70	3	70-130	20	
Pyrene	20.0	17.2	16.7	86	84	3	27-154	20	

QA/QC Report for Metals

Reference #: NAM 27693 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27693-001 Date of Extraction: 02/21/23 09:40

Laboratory Ca		T.							1			
Analyte	MS Date	MSD Date	R1	SPC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Analyte	of Analysis	of Analysis	KI	CONC	IVIO	MISD	IVIS	MISD	KFU	70IVI 3	KFD	Qualifiers
Antimony	02/23/23 14:33	02/23/23 14:42	0.00	20.0	3.01	3.30	15	16	9	75-125	20	M2,
Arsenic	02/23/23 14:33	02/23/23 14:42	0.00	20.0	18.8	19.0	94	95	1	75-125	20	
Barium	02/23/23 14:33	02/23/23 14:42	84.0	20.0	101	100	85	80	1	75-125	20	
Beryllium	02/23/23 14:33	02/23/23 14:42	0.00	20.0	17.5	17.7	88	89	1	75-125	20	
Cadmium	02/23/23 14:33	02/23/23 14:42	0.00	20.0	16.4	16.7	82	84	2	75-125	20	
Chromium	02/23/23 14:33	02/23/23 14:42	12.0	20.0	30.9	31.5	94	98	2	75-125	20	
Cobalt	02/23/23 14:33	02/23/23 14:42	6.90	20.0	24.2	24.8	87	89	2	75-125	20	
Copper	02/23/23 14:33	02/23/23 14:42	9.70	20.0	27.7	28.2	90	93	2	75-125	20	
Lead	02/23/23 14:33	02/23/23 14:42	17.0	20.0	34.8	36.5	89	98	5	75-125	20	
Molybdenum	02/23/23 14:33	02/23/23 14:42	0.00	20.0	16.0	16.2	80	81	1	75-125	20	
Nickel	02/23/23 14:33	02/23/23 14:42	7.10	20.0	24.5	25.2	87	91	3	75-125	20	
Selenium	02/23/23 14:33	02/23/23 14:42	0.00	20.0	17.1	16.8	86	84	2	75-125	20	
Silver	02/23/23 14:33	02/23/23 14:42	0.00	20.0	18.6	18.8	93	94	1	75-125	20	
Thallium	02/23/23 14:33	02/23/23 14:42	0.00	20.0	13.8	14.0	69	70	1	75-125	20	M2,
Vanadium	02/23/23 14:33	02/23/23 14:42	28.0	20.0	46.8	47.8	94	99	2	75-125	20	
Zinc	02/23/23 14:33	02/23/23 14:42	48.0	20.0	69.9	70.2	110	111	0	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

6010B/7471A

Laboratory Sample #: HV0221231

Date of Extraction: 02/21/23 09:40

Laboratory Sample #: 11V0221201					L/L 1/LO	JUTU					
LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
02/23/23 14:20	02/23/23 14:30		20.0	17.3	20.1	86	101	15	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	17.1	19.7	86	99	14	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	17.5	20.6	88	103	16	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	16.7	19.7	84	99	16	80-120	20	
02/23/23 17:52	02/23/23 14:30		20.0	18.4	18.8	92	94	2	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	17.6	20.9	88	104	17	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	17.4	21.5	87	108	21	80-120	20	R2,
02/23/23 14:20	02/23/23 14:30		20.0	16.4	20.1	82	101	20	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	17.8	20.4	89	102	14	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	16.9	19.5	84	98	14	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	18.4	21.5	92	108	16	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	16.1	19.1	81	96	17	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	19.4	20.8	97	104	7	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	17.8	19.8	89	99	11	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	16.3	19.1	81	96	16	80-120	20	
02/23/23 14:20	02/23/23 14:30		20.0	17.5	20.2	88	101	14	80-120	20	
	LCS Date of Analysis 02/23/23 14:20	LCS Date of Analysis	LCS Date of Analysis	LCS Date of Analysis LCSD Date of Analysis SPC CONC 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 17:52 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14:20 02/23/23 14:30 20.0 02/23/23 14	LCS Date of Analysis LCSD Date of Analysis SPC CONC LCS 02/23/23 14:20 02/23/23 14:30 20.0 17.3 02/23/23 14:20 02/23/23 14:30 20.0 17.1 02/23/23 14:20 02/23/23 14:30 20.0 17.5 02/23/23 14:20 02/23/23 14:30 20.0 16.7 02/23/23 17:52 02/23/23 14:30 20.0 17.6 02/23/23 14:20 02/23/23 14:30 20.0 17.6 02/23/23 14:20 02/23/23 14:30 20.0 17.4 02/23/23 14:20 02/23/23 14:30 20.0 16.4 02/23/23 14:20 02/23/23 14:30 20.0 16.9 02/23/23 14:20 02/23/23 14:30 20.0 16.9 02/23/23 14:20 02/23/23 14:30 20.0 16.1 02/23/23 14:20 02/23/23 14:30 20.0 16.1 02/23/23 14:20 02/23/23 14:30 20.0 16.1	LCS Date of Analysis LCSD Date of Analysis SPC CONC LCSD LCSD 02/23/23 14:20 02/23/23 14:30 20.0 17.3 20.1 02/23/23 14:20 02/23/23 14:30 20.0 17.1 19.7 02/23/23 14:20 02/23/23 14:30 20.0 17.5 20.6 02/23/23 14:20 02/23/23 14:30 20.0 16.7 19.7 02/23/23 17:52 02/23/23 14:30 20.0 18.4 18.8 02/23/23 14:20 02/23/23 14:30 20.0 17.6 20.9 02/23/23 14:20 02/23/23 14:30 20.0 17.4 21.5 02/23/23 14:20 02/23/23 14:30 20.0 16.4 20.1 02/23/23 14:20 02/23/23 14:30 20.0 17.8 20.4 02/23/23 14:20 02/23/23 14:30 20.0 16.9 19.5 02/23/23 14:20 02/23/23 14:30 20.0 16.1 19.1 02/23/23 14:20<	LCS Date of Analysis LCSD Date of Analysis SPC CONC LCSD LCSD % 02/23/23 14:20 02/23/23 14:30 20.0 17.3 20.1 86 02/23/23 14:20 02/23/23 14:30 20.0 17.1 19.7 86 02/23/23 14:20 02/23/23 14:30 20.0 17.5 20.6 88 02/23/23 14:20 02/23/23 14:30 20.0 16.7 19.7 84 02/23/23 17:52 02/23/23 14:30 20.0 17.6 20.9 88 02/23/23 14:20 02/23/23 14:30 20.0 17.6 20.9 88 02/23/23 14:20 02/23/23 14:30 20.0 17.4 21.5 87 02/23/23 14:20 02/23/23 14:30 20.0 16.4 20.1 82 02/23/23 14:20 02/23/23 14:30 20.0 16.9 19.5 84 02/23/23 14:20 02/23/23 14:30 20.0 16.1 19.1	LCS Date of Analysis LCSD Date of Analysis SPC CONC LCS LCSD % LCS LCSD % LCSD 02/23/23 14:20 02/23/23 14:30 20.0 17.3 20.1 86 101 02/23/23 14:20 02/23/23 14:30 20.0 17.1 19.7 86 99 02/23/23 14:20 02/23/23 14:30 20.0 17.5 20.6 88 103 02/23/23 14:20 02/23/23 14:30 20.0 16.7 19.7 84 99 02/23/23 17:52 02/23/23 14:30 20.0 17.6 20.9 88 104 02/23/23 14:20 02/23/23 14:30 20.0 17.6 20.9 88 104 02/23/23 14:20 02/23/23 14:30 20.0 17.4 21.5 87 108 02/23/23 14:20 02/23/23 14:30 20.0 16.4 20.1 82 101 02/23/23 14:20 02/23/23 14:30 20.0 16.9 19.5 <td>LCS Date of Analysis LCSD Date of Analysis SPC CONC LCSD LCSD % % RPD 02/23/23 14:20 02/23/23 14:30 20.0 17.3 20.1 86 101 15 02/23/23 14:20 02/23/23 14:30 20.0 17.1 19.7 86 99 14 02/23/23 14:20 02/23/23 14:30 20.0 17.5 20.6 88 103 16 02/23/23 14:20 02/23/23 14:30 20.0 16.7 19.7 84 99 16 02/23/23 17:52 02/23/23 14:30 20.0 17.6 20.9 88 104 17 02/23/23 14:20 02/23/23 14:30 20.0 17.6 20.9 88 104 17 02/23/23 14:20 02/23/23 14:30 20.0 17.4 21.5 87 108 21 02/23/23 14:20 02/23/23 14:30 20.0 16.4 20.1 82 101 20</td> <td>LCS Date of Analysis LCSD Date of Analysis SPC CONC LCS LCSD % % LCSD RPD %LCS 02/23/23 14:20 02/23/23 14:30 20.0 17.3 20.1 86 101 15 80-120 02/23/23 14:20 02/23/23 14:30 20.0 17.1 19.7 86 99 14 80-120 02/23/23 14:20 02/23/23 14:30 20.0 17.5 20.6 88 103 16 80-120 02/23/23 14:20 02/23/23 14:30 20.0 16.7 19.7 84 99 16 80-120 02/23/23 14:20 02/23/23 14:30 20.0 17.6 20.9 88 104 17 80-120 02/23/23 14:20 02/23/23 14:30 20.0 17.4 21.5 87 108 21 80-120 02/23/23 14:20 02/23/23 14:30 20.0 16.4 20.1 82 101 20 80-120</td> <td>LCS Date of Analysis of Analysis</td>	LCS Date of Analysis LCSD Date of Analysis SPC CONC LCSD LCSD % % RPD 02/23/23 14:20 02/23/23 14:30 20.0 17.3 20.1 86 101 15 02/23/23 14:20 02/23/23 14:30 20.0 17.1 19.7 86 99 14 02/23/23 14:20 02/23/23 14:30 20.0 17.5 20.6 88 103 16 02/23/23 14:20 02/23/23 14:30 20.0 16.7 19.7 84 99 16 02/23/23 17:52 02/23/23 14:30 20.0 17.6 20.9 88 104 17 02/23/23 14:20 02/23/23 14:30 20.0 17.6 20.9 88 104 17 02/23/23 14:20 02/23/23 14:30 20.0 17.4 21.5 87 108 21 02/23/23 14:20 02/23/23 14:30 20.0 16.4 20.1 82 101 20	LCS Date of Analysis LCSD Date of Analysis SPC CONC LCS LCSD % % LCSD RPD %LCS 02/23/23 14:20 02/23/23 14:30 20.0 17.3 20.1 86 101 15 80-120 02/23/23 14:20 02/23/23 14:30 20.0 17.1 19.7 86 99 14 80-120 02/23/23 14:20 02/23/23 14:30 20.0 17.5 20.6 88 103 16 80-120 02/23/23 14:20 02/23/23 14:30 20.0 16.7 19.7 84 99 16 80-120 02/23/23 14:20 02/23/23 14:30 20.0 17.6 20.9 88 104 17 80-120 02/23/23 14:20 02/23/23 14:30 20.0 17.4 21.5 87 108 21 80-120 02/23/23 14:20 02/23/23 14:30 20.0 16.4 20.1 82 101 20 80-120	LCS Date of Analysis of Analysis

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27693-003 Date of Extraction: 02/21/23 10:15

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	02/23/23 11:56	02/23/23 12:15	0.00	20.0	19.1	20.3	96	101	6	75-125	20	
Lead	02/23/23 11:56	02/23/23 12:15	5.60	20.0	22.1	23.9	83	91	8	75-125	20	

QA/QC Report for Metals

Reference #: NAM 27693 Reporting units: ppm

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Control Spike Duplicate (LCSD) 6010B/7471A

Date of Extraction: 02/21/23 10:15

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	02/23/23 11:51	02/23/23 11:53	 20.0	18.1	17.8	91	89	2	80-120	20	
Lead	02/23/23 11:51	02/23/23 11:53	 20.0	19.3	19.0	96	95	2	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Laboratory Sample #: HV0221232

6010B/7471A

Laboratory San	nple #: 27693-00	1	Date o	of Extrac	tion: 0	2/21/23 1	17:00					
Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Mercury	02/23/23 13:34	02/23/23 12:35	0.22	1.00	0.827	0.830	61	61	0	80-120	20	M2,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

6010B/7471A

Laboratory Sam	ple #: HV022123	33	Date o	of Extrac	tion: 0	2/21/23 1	7:00					
	LCS Date	LCSD Date		SPC			%	%		ACP	ACP	
Analyte	of Analysis	of Analysis		CONC	LCS	LCSD	LCS	LCSD	RPD	%LCS	RPD	Qualifiers
Mercury	02/27/23 15:13	02/27/23 15:14		1.00	1.13	1.13	113	113	0	80-120	20	

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

L2 = The associated blank spike recovery was below laboratory acceptance limits. 8270C Fluorene LCS/LCSD GS0221231 M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable. 27693-001 6010B Antimony MS/MSD 27693-001 6010B Mercury MS/MSD 6010B Thallium MS/MSD 27693-001 8270C Phenanthrene MS/MSD 27693-026 M2 = Matrix spike recovery was low. 8270C MS/MSD 27693-026 Fluorene R2 = RPD/RSD exceeded the laboratory acceptance limit. 6010B HV0221231 Cobalt LCS/LCSD R7 = LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria. VV0221231 8081A Endosulfan I LCS/LCSD VV0221231 8081A gamma-BHC (Lindane) LCS/LCSD VV0221231 8081A Methoxychlor LCS/LCSD S1 = Surrogate recovery was above laboratory acceptance limits. 27693-026 8270C MSD Nitrobenzene-d5 8270C GS0221231 Nitrobenzene-d5 LCS/LCSD

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

Analysis Request & C of Custody Record Lab Job No .: ORANGE COAST ANALYTICAL, INC. www.ocalab.com 3002 Dow Avenue, Suite 532 ANALYSIS REQUEST / PRESERVATION 4620 East Elwood Street, Suite 4 Tustin, CA 92780 Phoenix, AZ 85040 REQUESTED Phone: (714) 832-0064 Fax: (714) 832-0067 Phone: (480) 736-0960 Fax: (480) 736-0970 TURN-AROUND-TIME Title 22 Metals by EPA 6010B/7471A CUSTOMER INFORMATION PROJECT INFORMATION Hexavalent Chromium by EPA 7199 Standard: X Ninyo & Moore LAUSD 49th Street PEA Project Name: Company: Send Report To: Dennis Fee Project Number: 211936010 72 Hour: TPH-g,d,o by EPA 8015B PAHS by EPA 8270-SIM Arsenic by EPA 6010B dfee@ninyoandmoore.com PO #: OCs by EPA 8260B Address: 475 Goddard Address (City / State): Los Angeles, CA 48 Hour: Irvine, CA 92618 EDD Required: EAC/AC OCPs by I Sampled By: Fax: 24 Hour: Sample Time Container Type Sample Date REMARKS / INSTRUCTIONS 0850 2/18/23 B2-0.5 90zjar 1102 0854 B2-2.5

Email: Phone: (949) 753-7070 Customer Sample IDs CI=compositegroup IU CZ=composite and 2 U CI 0902 R1-2.5 0904 0923 0925 B3-2.5 B4-0.5 0931 **c3** C3 = composite andp 3 V CH= composite group 4 B4-2.5 0932 R22-0.5 0938 B22-2.5 0940 HOLD B22-5 0942 HOLD 0958 B42-2.5 5 B42-5 HOLD 1000 R41-2.5 1011 No. of Samples: Method of Shipment: Preservative: 1 = lce 2 = HCl $3 = HNO_3$ 4 = H2SO4 5 = NaOH6 = Other Relinquished By; Received By: Date: Sample Matrix: DW - Drinking Water Time: Time: GW - Groundwater Company: Company: AQ - Aqueous Relinquished By: Received By: WW - Wastewater Date: Date: SS - Soil / Solid Time: Time: SW - Stormwater Company: Company: OT - Other Received For OCA By: Relinquished By: Date: 2-26-23 Date: Sample Integrity: 200+022.16 Time: 1611 Time: Company: Company: OCA CM

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, by Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup samples upon completion of all analyses.

Analysis Request & C

4620 East Elwood Street, Suite 4

of Custody Record



Company:

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

www.ocalab.com

ab Job No.:	7	1	100	13	
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ANALYSIS REQUEST / PRESERVATION

Page: 2 of

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Phone: (714) 832-0064 Fax: (714)	832-0067	Phone: (480) 736-		0) 736-0970													REQUI	
CUSTOMER INFORMATION		PRO.	JECT INFORM	ATION							6010B/7471A	199					Standard:	Х
Company: Ninyo & Moore	Project N	ame: LAUS	SD 49th Stree	t PEA							7/80	Hexavalent Chromium by EPA 7199						
end Report To: Dennis Fee	Project N	umber: 2119	36010									by E		_		8	72 Hour:	
mail: <u>dfee@ninyoandmoore.com</u>	PO #:							108	⋖		EPA	nium		SIZ-	98	8015		
ddress: 475 Goddard	Address (City / State):	Los Angeles,	CA			6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by EPA	hron	ΓM	PAHS by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	48 Hour:	
Irvine, CA 92618	EDD Requ						EPA	Jy EF	EPA	EPA	Vieta	nt C	Asbestos by PLM	EPA	EPA	o by		
hone: (949) 753-7070 Fax:	Sampled	BY: EACH	4C				λq	nict	s by	s by	22 1	avale	estos	s by	s by	, p, g	24 Hour:	
ustomer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix	Conta	ner Type	Lead	Arse	OCP	PCB	Title	Hex	Asbe	PAH	VOC	TP.	REMARKS / IN	STRUCTIONS
B41-5	5	2/18/23	1014	soil	907	JAS		1.7				1					HOLD	
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B5-2.5	li		1104	-		,			CH									
B6-0.5			1111				X	X	C3									
86-2.5	12/		1113		1	/			C4									
840-5	5		1126		902	jav				C.							HOLD	
88-0.5	l t		1248		_	zjav	X	X	c5		X	X	X	X			C5=COMP	ositean
88-2.5	1		1250			1			Cb								Clo=com	
87-0.5			1254				X	X	C5									-
87-2-5			1255						C6									
B12-0.5			1302				X	X	CT		X	X	X	X			C7=comp	ositequa
B12-2.5		1= CII	1304						CB								comi	
811-0.5	V	1/	1307			1/	X	X	c7									
o. of Samples: 14 Method of Shi	pment:				Preser	vative:	1	= lce	2	= HCl	3	= HN	03	4=	H ₂ SC)4	5 = NaOH	6 = Other
Chille Time	= 2/24/23	Received By:				Date						nple N W - G		x: dwate	er		DW - Drinking	
ompany: N Ž M		Company: Received By:								-							AQ - Aqueous	
Date		neceived by.				Date	e:				W	W-V	Waste	ewate	er		SS - Soil / Solid	i
ompany:	2:	Company:				Time	e:				SV	N - St	ormv	water			OT - Other	3
elinquished By: Date	1,	Received For O	CA By:			Date	e: 2-	20	-23		Sam	nple I	ntegr	ity:			2,0+0:	2.5 %
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Company: OCA, LA

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■ ORANGE COAST ANALYTIC	CAL INC		TATIATIA.	ocalab.	com	Lab J	ob No.:	-	271	2013	3		Pa	ge:	3 of	4
3002 Dow Avenue, Suite 532		4620 East Elw			com		ANA	LYSIS R	EQUE	ST / PF	RESER	RVATIO	ON		1	,
Tustin, CA 92780		Phoenix, AZ 8		,,,,,			-	1								
Phone: (714) 832-0064 Fax: (714)	832-0067	Phone: (480) 736	6-0960 Fax: (48)	0) 736-0970											REQUESTI TURN-AROUNI	
CUSTOMER INFORMATION		PRO	DJECT INFORM	ATION					71A	7199						X
Company: Ninyo & Moore	Project	Name: LAU	ISD 49th Stree	t PEA		1			6010B/7471A	PA 7					Standards	
Send Report To: Dennis Fee	Project	Number: 211	936010							by E		-		98	72 Hour:	
Email: dfee@ninyoandmoore.com	PO #:					- B	0108	۲	/ EPA	min		NIS-C)B	8015		
Address: 475 Goddard		s (City / State):	Los Angeles,	CA		60108	PA 60	808	als by	Chror	PLM	827	826	, EPA	48 Hour:	
Irvine, CA 92618		quired:	AC			/ EPA	by E	y EP/	Met	lent (yd sc	y EPA	y EPA	(d 0,		
Phone: (949) 753-7070 Fax: Customer Sample IDs	Sample No. of	Sample Date	Sample Time	Sample	Container Type	Lead by	Arsenic by EPA 6010B	OCFS by EPA 8081A	Title 22 Metals by EPA	Hexavalent Chromium by	Asbestos by PLM	PAHS by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	24 Hour:	_
B11-2.5	Containe	2/18/23	1309	Soil	902 jar		_	_	F	Ĭ	As	PA	>	ΤP	REMARKS / INSTRI	JCTIONS
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No. of Samples: 14 Method of Ship	ment:			-	Preservative:	1	= Ice	2 = H0		= HNO	0,	4=	H ₂ SO ₄		5 = NaOH 6 =	Other
Relinquished By: Date:	2/20/23	Received By:			Date					nple N			2002			
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Company:		Company: 00	A, LA						Inta	act:		(On Ice	Ye	es) No @	C

Company: OCA, LA

Analysis Request & C of Custody Record Lab Job No .: ORANGE COAST ANALYTICAL, INC. www.ocalab.com 3002 Dow Avenue, Suite 532 4620 East Elwood Street, Suite 4 ANALYSIS REQUEST / PRESERVATION Tustin, CA 92780 Phoenix, AZ 85040 REQUESTED Phone: (714) 832-0064 Fax: (714) 832-0067 Phone: (480) 736-0960 Fax: (480) 736-0970 TURN-AROUND-TIME Title 22 Metals by EPA 6010B/7471A CUSTOMER INFORMATION PROJECT INFORMATION Hexavalent Chromium by EPA 7199 Standard: Company: Ninvo & Moore Project Name: LAUSD 49th Street PEA Send Report To: Dennis Fee Project Number: 211936010 72 Hour: TPH-g,d,o by EPA 8015B PAHS by EPA 8270-SIM Arsenic by EPA 6010B dfee@ninyoandmoore.com Email: PO #: /OCs by EPA 8260B OCPs by EPA 8081A Asbestos by PLM Address: 475 Goddard Address (City / State): Los Angeles, CA 48 Hour: Irvine, CA 92618 EDD Required: EACLAC (949) 753-7070 Fax: Sampled By: 24 Hour: No. of Customer Sample IDs Sample Date Container Type Matrix REMARKS / INSTRUCTIONS B18-2.5 2/18/23 1414 Soil 902 jav R10-0.5 1420 B10-2.5 CB 1422 2/8/23 No. of Samples: 3 Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO₃ 4 = H2SO4 5 = NaOH6 = Other Relinquished By: Received By: Date: Sample Matrix: DW - Drinking Water Time: Time: GW - Groundwater Company: Company: AQ - Aqueous

Relinquished By: Received By: Date: WW - Wastewater Date: SS - Soil / Solid Time: Time: SW - Stormwater Company: Company: OT - Other Received For OCA By: Relinquished By: Date: 2-20-23 Date: Sample Integrity: 2.0+0-2.16 Time: /611 Time: Company: OCA, CA Company:

Sample Receipt Report

# Shipping Container: Cooler # Shipping Containers: Sample Quantity 57 Soil Chain of Custody Samples On Ice	Delivered	Company Name: Project Manager: Project Name: Project #: Complete Yes, Wet Yes, Wet Yes Yes Yes	Ninyo & Moore Mr. Dennis Fee LAUSD 49th Street P 211936010 Incomplete Yes, Blue Adjusted Temp.: N/A	None
Shipping Container: Cooler # Shipping Containers: Sample Quantity 57 Soil Chain of Custody Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact	1	Project Name: Project #: Complete Yes, Wet ID: IR#3 Yes	LAUSD 49th Street P 211936010 Incomplete Yes, Blue Adjusted Temp.:	None
# Shipping Containers: Sample Quantity 57 Soil Chain of Custody Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		Project #: Complete Yes, Wet ID: IR#3 Yes	Incomplete Yes, Blue Adjusted Temp.:	None
Sample Quantity 57 Soil Chain of Custody Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		Complete ✓ Yes, Wet ✓ rID: IR#3 Yes ✓	Incomplete Yes, Blue Adjusted Temp.:	No
Chain of Custody Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		Yes, Wet ☑ rID: IR#3 Yes ☑	Yes, Blue Adjusted Temp.:	No
Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		Yes, Wet ☑ rID: IR#3 Yes ☑	Yes, Blue Adjusted Temp.:	No
Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		rID: IR#3 Yes ☑	Adjusted Temp.:	2+0=2
Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact	2 Thermomete	Yes 🗸		
Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact			N/A	
Samples Intact Sample Custody Seals Intact		Yes		No 🗌
Sample Custody Seals Intact			N/A 🗸	No 🗌
		Yes 🗸		No 🗌
Custody Seals Signed & Dated		Yes 🗌	N/A 🗸	No 🗌
		Yes 🗌	N/A 🗸	No 🗌
Proper Test Containers		Yes 🗸		No 🗌
Proper Test Preservations		Yes 🗸		No 🗌
Samples Within Hold Times		Yes 🗸		No 🗌
VOAs Have Zero Headspace		Yes 🗌	N/A 🗸	No 🗌
Sample Labels		Complete 🗸	Incomplete	None 🗌
Sample Information Matches Co	oc	Yes 🗸	N/A	No 🗌
Notes				

Client Notified

LA Testing Order: 332303094 CustomerID: 320RAN77

CustomerPO:

ProjectID:

Mark Noorani **Orange Coast Analytical, Inc.** 3002 Dow Avenue **Suite 532 Tustin, CA 92780**

Phone: (714) 832-0064 Fax: (714) 832-0067 2/22/2023 10:35 AM Received:

Analysis Date: 2/28/2023 Collected: 2/18/2023

Test Report: Asbestos Analysis via Polarized Light Microscopy, Qualitative

Sample	Description	Appearance	Result	Notes	
1 332303094-0001	B2-0.5	Brown/Tan Non-Fibrous Heterogeneous	None Detected		
2 332303094-0002	B3-0.5	Brown/Tan Non-Fibrous Heterogeneous	None Detected		
3 332303094-0003	B5-0.5	Brown Non-Fibrous Homogeneous	None Detected		
4 332303094-0004	B8-0.5	Brown/White/Clear Non-Fibrous Heterogeneous	None Detected		
5 332303094-0005	B12-0.5	Brown/Gray Non-Fibrous Heterogeneous	None Detected		
6 332303094-0006	B9-0.5	Brown Non-Fibrous Homogeneous	None Detected		
7 332303094-0007	B14-0.5	Brown Non-Fibrous Homogeneous	None Detected		
8	B15-0.5	Brown/Black/Orang e	None Detected		
332303094-0008		Non-Fibrous Heterogeneous			
9 332303094-0009	B18-0.5	Brown Non-Fibrous Homogeneous	None Detected		

Analyst(s)	michael Chapman
Tony Salgado (5)	Michael Chapman, Laboratory Manage
Thanh Nguyen (4)	or other approved signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. LA Testing suggests that samples reported as none detected undergo additional analysis via TEM to avoid the possibility of false negatives. Samples analyzed by LA Testing Huntington Beach, CA

Initial report from 02/28/2023 16:16:53

Test Report PLMQualw/Types-7.21.0 Printed: 2/28/2023 4:16:53 PM

OrderID: 332303094



Asbestos Chain of Custody LA Testing Order Number (Lab Use Only):

#332303094

LA TESTING 5431 INDUSTRIAL DRIVE HUNTINGTON BEACH, CA 92649

PHONE: (714)828-4999 FAX: (714)761-2713

Street: 3002 Dow Ave, Ste 532 City: Tustin Report To (Name): Mark Noorani Telephone #: 7148320064 Project Name/Number: Please Provide Results:	nt note instructions in Co		
State/Province: CA	If Bill to is Different note instructions in Comments**		
Fax #: Telephone #: 7148320064	Third Party Billing requires written authorization from third party		
Telephone #: 7148320064 Email Address: markn@ Project Name/Number: Please Provide Results:			
Project Name/Number: Please Provide Results: Fax Email Purchase Order: 27693 U.S. Standard Results: Fax Email Fax Email Fax Fax Email Fax Fax			
Please Provide Results:	ocalab.com, ocal	ab@sbcglobal.net	
3 Hours	1-1- C		
3 Hours	tate Samples Tak	en: Yes	
Sample # Sample Description 1	## Protocol (Quantitative) 4 Days		
Sample # Sample Description 1			
2 B3-0.5 3 B5-0.5 4 B8-0.5 5 B12-0.5 6 B9-0.5 7 B14-0.5	olume/Area (Air) HA # (Bulk)	Date/Time Sampled	
3 B5-0.5 4 B8-0.5 5 B12-0.5 6 B9-0.5 7 B14-0.5		2/18/23 0850	
4 B8-0.5 5 B12-0.5 6 B9-0.5 7 B14-0.5		2/18/23 0923	
5 B12-0.5 6 B9-0.5 7 B14-0.5		2/18/23 1102	
6 B9-0.5 7 B14-0.5		2/18/23 1248	
7. B14-0.5		2/18/23 1302	
		2/18/23 1320	
8 R15.0.5		2/18/23 1340	
		2/18/23 1357	
Client Sample # (s):	al # of Samples:	9	
Relinquished (Client): The OCALA Date: 2/21/23	Time	:1500	
Received (Lab): Fwily Membra Wy Date: 2 22 23 Comments/Special Instructions: PLM Qualitative	Time	: 10:35AM	



Asbestos Chain of Custody LA Testing Order Number (Lab Use Only):

LA TESTING 5431 INDUSTRIAL DRIVE HUNTINGTON BEACH, CA 92649 PHONE: (714)828-4999 FAX: (714)761-2713

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
9	B18-0.5		02/18/23 1412
		-	
			1:
	_		
*Commenta/Succ	ial Instructions		
*Comments/Spec	iai ilistructions:		

Page of pages

ANALYTICAL REPORT

PREPARED FOR

Attn: Mark Noorani Orange Coast Analytical Inc 3002 Dow Ave, Suite 532 Tustin, California 92780 Generated 2/28/2023 10:40:10 AM

JOB DESCRIPTION

211936010

JOB NUMBER

570-128722-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780

Eurofins Calscience

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Generated 2/28/2023 10:40:10 AM

Authorized for release by Sandy Tat, Project Manager I Sandy.Tat@et.eurofinsus.com (714)895-5494 _

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Table of Contents

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Definitions/Glossary

Client: Orange Coast Analytical Inc Job ID: 570-128722-1

Project/Site: 211936010

Glossary

PRES

QC

RER

RL RPD

TEF

TEQ TNTC Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

J. J	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

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14

Case Narrative

Client: Orange Coast Analytical Inc

Project/Site: 211936010

Job ID: 570-128722-1

Job ID: 570-128722-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-128722-1

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 1:54 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Project/Site: 211936010	
Client Sample ID: B2-05	Lab Sample ID: 570-128722-1
No Detections.	
Client Sample ID: B3-0.5	Lab Sample ID: 570-128722-2
No Detections.	
Client Sample ID: B5-0.5	Lab Sample ID: 570-128722-3
No Detections.	
Client Sample ID: B8-0.5	Lab Sample ID: 570-128722-4
No Detections.	
Client Sample ID: B12-0.5	Lab Sample ID: 570-128722-5
No Detections.	
Client Sample ID: B9-0.5	Lab Sample ID: 570-128722-6
No Detections.	
Client Sample ID: B14-0.5	Lab Sample ID: 570-128722-7
No Detections.	
Client Sample ID: B15-0.5	Lab Sample ID: 570-128722-8
No Detections.	
Client Sample ID: B18-0.5	Lab Sample ID: 570-128722-9
No Detections.	

This Detection Summary does not include radiochemical test results.

Client: Orange Coast Analytical Inc

Eurofins Calscience

2/28/2023

Job ID: 570-128722-1

Page 6 of 16

Client: Orange Coast Analytical Inc Job ID: 570-128722-1

Project/Site: 211936010

Method: SW8	16 7199 - Chromiu	m, Hexavalent (IC)

Chromium, hexavalent

Client Sample ID: B2-05							Lab Sam	ple ID: 570-12	28722-1
Date Collected: 02/18/23 08:50								•	c: Solid
Date Received: 02/22/23 13:54									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 06:19	10
Client Sample ID: B3-0.5							Lab Sam	ple ID: 570-12	28722-2
Date Collected: 02/18/23 09:23								Matrix	c: Solid
Date Received: 02/22/23 13:54									
Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 06:31	10
Client Sample ID: B5-0.5							Lab Sam	ple ID: 570-12	28722-3
Date Collected: 02/18/23 11:02								Matrix	c: Solid
Date Received: 02/22/23 13:54									
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 06:43	10
Client Sample ID: B8-0.5							Lab Sam	ple ID: 570-12	28722-4
Date Collected: 02/18/23 12:48								Matrix	c: Solid
Date Received: 02/22/23 13:54									
Analyte	Result	Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 06:55	10
Client Sample ID: B12-0.5							Lab Sam	ple ID: 570-12	28722-5
Date Collected: 02/18/23 13:02								Matrix	c: Solid
Date Received: 02/22/23 13:54									
Analyte		Qualifier	RL _		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 07:07	10
Client Sample ID: B9-0.5							Lab Sam	ple ID: 570-12	
Date Collected: 02/18/23 13:20								Matrix	c: Solid
Date Received: 02/22/23 13:54									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 07:19	10
Client Sample ID: B14-0.5							Lab Sam	ple ID: 570-12	
Date Collected: 02/18/23 13:40								Matrix	c: Solid
Date Received: 02/22/23 13:54									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 07:55	10
Client Sample ID: B15-0.5							Lab Sam	ple ID: 570-12	28722-8
Date Collected: 02/18/23 13:57								Matrix	c: Solid
Date Received: 02/22/23 13:54									
Analyte		Qualifier	RL _		Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 08:07	10
Client Sample ID: B18-0.5							Lab Sam	ple ID: 570-12	
Date Collected: 02/18/23 14:12								Matrix	c: Solid
Date Received: 02/22/23 13:54									
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac

02/27/23 01:30 02/27/23 08:19

400

190 ug/Kg

ND

QC Sample Results

Client: Orange Coast Analytical Inc Job ID: 570-128722-1

Project/Site: 211936010

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 570-307132/1-A **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Solid Analysis Batch: 307133

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac

400 02/27/23 01:30 02/27/23 03:36 Chromium, hexavalent ND 190 ug/Kg

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 570-307132/2-A **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 307133 Prep Batch: 307132**

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 20100 19250 80 - 120 Chromium, hexavalent ug/Kg 96

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 570-307132/3-A Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 307133 Prep Batch: 307132 Spike LCSD LCSD %Rec RPD

Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chromium, hexavalent 20000 22350 112 80 - 120 15 ug/Kg

Prep Batch: 307132

2/28/2023

QC Association Summary

Client: Orange Coast Analytical Inc Job ID: 570-128722-1

Project/Site: 211936010

HPLC/IC

Prep Batch: 307132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-128722-1	B2-05	Total/NA	Solid	3060A	
570-128722-2	B3-0.5	Total/NA	Solid	3060A	
570-128722-3	B5-0.5	Total/NA	Solid	3060A	
570-128722-4	B8-0.5	Total/NA	Solid	3060A	
570-128722-5	B12-0.5	Total/NA	Solid	3060A	
570-128722-6	B9-0.5	Total/NA	Solid	3060A	
570-128722-7	B14-0.5	Total/NA	Solid	3060A	
570-128722-8	B15-0.5	Total/NA	Solid	3060A	
570-128722-9	B18-0.5	Total/NA	Solid	3060A	
MB 570-307132/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 570-307132/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 570-307132/3-A	Lab Control Sample Dup	Total/NA	Solid	3060A	

Analysis Batch: 307133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-128722-1	B2-05	Total/NA	Solid	7199	307132
570-128722-2	B3-0.5	Total/NA	Solid	7199	307132
570-128722-3	B5-0.5	Total/NA	Solid	7199	307132
570-128722-4	B8-0.5	Total/NA	Solid	7199	307132
570-128722-5	B12-0.5	Total/NA	Solid	7199	307132
570-128722-6	B9-0.5	Total/NA	Solid	7199	307132
570-128722-7	B14-0.5	Total/NA	Solid	7199	307132
570-128722-8	B15-0.5	Total/NA	Solid	7199	307132
570-128722-9	B18-0.5	Total/NA	Solid	7199	307132
MB 570-307132/1-A	Method Blank	Total/NA	Solid	7199	307132
LCS 570-307132/2-A	Lab Control Sample	Total/NA	Solid	7199	307132
LCSD 570-307132/3-A	Lab Control Sample Dup	Total/NA	Solid	7199	307132

Eurofins Calscience

Lab Chronicle

Client: Orange Coast Analytical Inc

Project/Site: 211936010

Lab Sample ID: 570-128722-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Job ID: 570-128722-1

Date Collected: 02/18/23 08:50 Date Received: 02/22/23 13:54

Client Sample ID: B2-05

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.51 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 06:19	YO8L	EET CAL 4
	Instrumer	nt ID: IC33								

Client Sample ID: B3-0.5

Date Collected: 02/18/23 09:23 Date Received: 02/22/23 13:54

Lab Sample ID: 570-128722-2 **Matrix: Solid**

Lab Sample ID: 570-128722-3

Lab Sample ID: 570-128722-4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.53 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 06:31	YO8L	EET CAL 4
	Instrumer	t ID: IC33								

Client Sample ID: B5-0.5

Date Collected: 02/18/23 11:02

Date Received: 02/22/23 13:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.52 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 06:43	YO8L	EET CAL 4
	Instrumer	nt ID: IC33								

Client Sample ID: B8-0.5

Date Collected: 02/18/23 12:48

Date Received: 02/22/23 13:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.47 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 06:55	YO8L	EET CAL 4
	Instrumer	t ID: IC33								

Clier

Date Date

ent Sample ID: B12-0.5	Lab Sample ID: 570-128722-5
e Collected: 02/18/23 13:02	Matrix: Solid
e Received: 02/22/23 13:54	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.48 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 07:07	YO8L	EET CAL 4

Eurofins Calscience

Lab Chronicle

Client: Orange Coast Analytical Inc

Project/Site: 211936010

Lab Sample ID: 570-128722-6

Matrix: Solid

Job ID: 570-128722-1

Date Collected: 02/18/23 13:20 Date Received: 02/22/23 13:54

Client Sample ID: B9-0.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.48 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 07:19	YO8L	EET CAL 4
	Instrumer	nt ID: IC33								

Client Sample ID: B14-0.5

Date Collected: 02/18/23 13:40 Date Received: 02/22/23 13:54

Lab Sample ID: 570-128722-7 **Matrix: Solid**

Lab Sample ID: 570-128722-8

Lab Sample ID: 570-128722-9

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.49 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 07:55	YO8L	EET CAL 4
	Instrumen	t ID: IC33								

Client Sample ID: B15-0.5

Date Collected: 02/18/23 13:57

Date Received: 02/22/23 13:54

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.50 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 08:07	YO8L	EET CAL 4
	Instrumer	nt ID: IC33								

Client Sample ID: B18-0.5 Date Collected: 02/18/23 14:12

Date Received: 02/22/23 13:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.51 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 08:19	YO8L	EET CAL 4

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Matrix: Solid

Matrix: Solid

Accreditation/Certification Summary

Client: Orange Coast Analytical Inc Job ID: 570-128722-1

Project/Site: 211936010

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

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Method Summary

Client: Orange Coast Analytical Inc

Project/Site: 211936010

Job ID: 570-128722-1

Method	Method Description	Protocol	Laboratory
7199	Chromium, Hexavalent (IC)	SW846	EET CAL 4
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

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Sample Summary

Client: Orange Coast Analytical Inc Project/Site: 211936010

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-128722-1	B2-05	Solid	02/18/23 08:50	02/22/23 13:54
570-128722-2	B3-0.5	Solid	02/18/23 09:23	02/22/23 13:54
570-128722-3	B5-0.5	Solid	02/18/23 11:02	02/22/23 13:54
570-128722-4	B8-0.5	Solid	02/18/23 12:48	02/22/23 13:54
570-128722-5	B12-0.5	Solid	02/18/23 13:02	02/22/23 13:54
570-128722-6	B9-0.5	Solid	02/18/23 13:20	02/22/23 13:54
570-128722-7	B14-0.5	Solid	02/18/23 13:40	02/22/23 13:54
570-128722-8	B15-0.5	Solid	02/18/23 13:57	02/22/23 13:54
570-128722-9	B18-0.5	Solid	02/18/23 14:12	02/22/23 13:54

Job ID: 570-128722-1

128722 CHAIN OF CUSTODY RECORD Cn by 1640 Missan 1418 yd 2990 LOC SAMPLER(S): (PRINT) P Cr(VI) [7196 X 7199] 218 6 × \times × \times × × × × \times P O NO 27693 XT4T\0S08 🗆 XT4T\0f08 🗀 alai9M SST REQUESTED ANALYSES MIS 0728 🗆 0728 🗆 aHA9 PCBs (8082) Please check box or fill in blank as needed Pesticides (8081) DATE: PAGE: SAOCs (8570) Prep (5035) 🗆 En Core 🗖 Terra Core CLIENT PROJECT NAME / NUMBER Oxygenates (8260) 570-128722 Chain of Custody AOCs (8560) BTEX / MTBE □ 8260 □ HGT PROJECT CONTACT Mark Noorani 211936010 TPH □ C6-C36 □ C6-C44 OAG (b)H9T (ояэ □ (g)нчт □ Field Filtered Preserved 92780 Unpreserved STANDARD Żβ S P S P S TN S S MATRIX SS SS SS SS SS SS SS SS SS ☐ 5 DAYS markn@ocalab com 14 12 11 02 12 48 13 02 13 20 13 40 13 57 TIME 8 50 9 23 7440 Lincoln Way Garden Grove CA 92841-1427 • (714) 895-5494 TURNAROUND TIME (Rush surcharges may apply to any TAT not 'STANDARD' ☐ 72 HR Calscience SAMPLING 2/18/23 Orange Coast Analytical, Inc 2/18/23 2/18/23 2/18/23 2/18/23 2/18/23 2/18/23 2/18/23 2/18/23 DATE ☐ 48 HR 3002 Dow Ave, Ste 532 eurofins 🚓 ☐ 24 HR B15-05 B14-05 SAMPLE ID B5-0 5 B8-0 5 B12-05 B18-05 B3-0 5 B9-0 5 B2-05 SPECIAL INSTRUCTIONS 7148320064 COELT EDF ☐ SAME DAY Tustin

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Page 15 of 16

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06/02/14 Revision

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Date.

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2/28/2023

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Date

Time

Login Sample Receipt Checklist

Client: Orange Coast Analytical Inc Job Number: 570-128722-1

Login Number: 128722 List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

oreator. Pater, Jayesii		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27693A

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 3/1/2023

Date Reported: 3/9/2023

Chain of Custody Received: <a>

Analytical Method: 8082, 6010B, 1311/6010B,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27693A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27693A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B1-0.5	27693-003	2/20/2023	2/18/2023	Soil
B3-0.5	27693-005	2/20/2023	2/18/2023	Soil
B3-2.5	27693-006	2/20/2023	2/18/2023	Soil
B4-0.5	27693-007	2/20/2023	2/18/2023	Soil
B4-2.5	27693-008	2/20/2023	2/18/2023	Soil
B22-0.5	27693-009	2/20/2023	2/18/2023	Soil
B22-2.5	27693-010	2/20/2023	2/18/2023	Soil
B7-0.5	27693-024	2/20/2023	2/18/2023	Soil
B11-0.5	27693-028	2/20/2023	2/18/2023	Soil
B11-2.5	27693-029	2/20/2023	2/18/2023	Soil
B13-0.5	27693-032	2/20/2023	2/18/2023	Soil
B13-2.5	27693-033	2/20/2023	2/18/2023	Soil
B16-0.5	27693-040	2/20/2023	2/18/2023	Soil
B16-2.5	27693-041	2/20/2023	2/18/2023	Soil
B10-0.5	27693-044	2/20/2023	2/18/2023	Soil
B10-2.5	27693-045	2/20/2023	2/18/2023	Soil

Lab Reference #: NAM 27693A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polychlorinated Biphenyl's (EPA 8082)

		. ,		,	,			
Client Sample II	D	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B1-0.5		27693-003	2/20/2023	2/18/2023	3/3/2023	3/3/2023	Soil	
			16:11	9:02	9:40	17:16		
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*	
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	94	
PCB-1221	11104-28-2	<25		* Acceptable Recovery: 35-130 %				
PCB-1232	11141-16-5	<25			^ Accepta	ible Recovery:	35-130 %	
PCB-1242	53469-21-9	<25			Dilution F	actor: 1		
PCB-1248	12672-29-6	<25			Data Qua	lifiers: None		
PCB-1254	11097-69-1	<25			<u>Baia Gae</u>	anioro.		
PCB-1260	11096-82-5	<25						
B22-0.5		27693-009	2/20/2023	2/18/2023	3/3/2023	3/3/2023	Soil	
_			16:11	9:38	9:40	17:30		
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>9:</u>	% RC*	
PCB-1016	12674-11-2	<75			Decachlo	robiphenyl	81	
PCB-1221	11104-28-2	<75			* ^	Abla Danayamy	05 100 0/	
PCB-1232	11141-16-5	<75			Accepta	ble Recovery:	35-130 %	
PCB-1242	53469-21-9	<75			Dilution F	actor: 3		
PCB-1248	12672-29-6	<75			Data Qua	llifiers: D1,		
PCB-1254	11097-69-1	<75			 			
PCB-1260	11096-82-5	<75						
B7-0.5		27693-024	2/20/2023	2/18/2023	3/3/2023	3/3/2023	Soil	
			16:11	12:54	9:40	17:45		
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>9:</u>	% RC*	
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	89	
PCB-1221	11104-28-2	<25						
PCB-1232	11141-16-5	<25			^ Accepta	ble Recovery:	35-130 %	
PCB-1242	53469-21-9	<25			Dilution F	actor: 1		
PCB-1248	12672-29-6	<25			Data Qua	lifiers: None		
PCB-1254	11097-69-1	<25			Daia Gae			
PCB-1260	11096-82-5	<25						

Lab Reference #: NAM 27693A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polychlorinated Biphenyl's (EPA 8082)

		,		, ,	,		
Client Sample II)	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B16-0.5		27693-040	2/20/2023 16:11	2/18/2023 14:09	3/3/2023 9:40	3/3/2023 18:00	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25		Decachlorobiphenyl			107
PCB-1221	11104-28-2	<25		* Acceptable Recovery: 3			DE 100.0/
PCB-1232	11141-16-5	<25			" Accepta	ible Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	lifiers: None	
PCB-1254	11097-69-1	<25			<u> </u>		
PCB-1260	11096-82-5	<25					
B10-0.5		27693-044	2/20/2023	2/18/2023	3/3/2023	3/3/2023	Soil
			16:11	14:20	9:40	18:14	
<u>ANALYTE</u>	CAS#	<u>μg/kg</u>			Surrogate	<u>9:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	91
PCB-1221	11104-28-2	<25			* ^	ble Decement	DE 100.0/
PCB-1232	11141-16-5	<25			Accepta	ble Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	lifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
Method Blank		MBVV0303231			3/3/2023 9:40	3/3/2023 16:03	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	94
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	ble Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25				lifiers: None	
PCB-1254	11097-69-1	<25			במומ שעם	amora.	
PCB-1260	11096-82-5	<25					

Lab Reference #: NAM 27693A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

			Lab Sample	Date	Date				
Client Sampl	le ID		Number	Received	Sampl	ed	Matrix		
B3-2.5			27693-006	2/20/2023 16:	11 2/18/20)23 9:25	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	<2.0	mg/kg	03/02/23 11:20	03/06/23 11:53		1	
B4-0.5			27693-007	2/20/2023 16:	11 2/18/20)23 9:31	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	TCLP Arsenic	6010B	22	mg/l	03/07/23 17:00	03/08/23 14:26		1	
B4-2.5			27693-008	2/20/2023 16:	11 2/18/20)23 9:32	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	130	mg/kg	03/02/23 11:20	03/06/23 12:01		1	
B22-2.5			27693-010	2/20/2023 16:	11 2/18/20)23 9:40	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	2.0	mg/kg	03/02/23 11:20	03/06/23 12:06		1	
B11-2.5			27693-029	2/20/2023 16:	11 2/18/20	023 13:09	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Lead	6010B	5.2	mg/kg	03/02/23 11:20	03/06/23 12:08		1	
B13-2.5			27693-033	2/20/2023 16:	11 2/18/20)23 13:38	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	3.1	mg/kg	03/02/23 11:20 03/06/23 1			1	

Lab Reference #: NAM 27693A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B16-2.5			27693-041	2/20/2023 16:	11 2/18/20)23 14:10	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	6.1	mg/kg	03/02/23 11:20	03/06/23 12:16		1	
B10-2.5			27693-045	2/20/2023 16:	11 2/18/20)23 14:22	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	4.3	mg/kg	03/02/23 11:20	03/06/23 12:18		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0307236	TCLP Arsenic	6010B	<0.080	mg/l	03/07/23 17:00	03/08/23 13:41		1	
B3-0.5			27693-005	2/20/2023 16:	11 2/18/20	023 9:23	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Arsenic	6010B	2.5	mg/L	03/07/23 17:00	03/08/23 12:50		1	
B4-0.5			27693-007	2/20/2023 16:	11 2/18/20)23 9:31	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Arsenic	6010B	53	mg/L	03/07/23 17:00	03/08/23 13:03		1	
B22-0.5			27693-009	2/20/2023 16:	11 2/18/20	023 9:38	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Arsenic	6010B	2.8	mg/L	03/07/23 17:00	03/08/23 13:06		1	

Lab Reference #: NAM 27693A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B11-0.5			27693-028	2/20/2023 16:1	11 2/18/20)23 13:07	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Lead	6010B	1.8	mg/L	03/07/23 17:00	03/08/23 13:09		1	
B13-0.5			27693-032	2/20/2023 16:1	11 2/18/20)23 13:36	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Lead	6010B	1.6	mg/L	03/07/23 17:00	03/08/23 13:11		1	
B16-0.5			27693-040	2/20/2023 16:1	11 2/18/20	023 14:09	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Lead	6010B	1.7	mg/L	03/07/23 17:00	03/08/23 13:14		1	
B10-0.5			27693-044	2/20/2023 16:1	11 2/18/20)23 14:20	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Lead	6010B	3.6	mg/L	03/07/23 17:00	03/08/23 13:17		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0307237	STLC Arsenic	6010B	<0.20	mg/L	03/07/23 17:00	03/08/23 12:43		1	
MBIR0307237	STLC Lead	6010B	<0.20	mg/L	03/07/23 17:00	03/08/23 12:43		1	

QA/QC Report

for

Polychlorinated Biphenyl's (EPA 8082)

Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 3/3/2023 9:40
<u>Date of Analysis:</u> 3/3/2023 16:47
<u>Dup Date of Analysis:</u> 3/3/2023 17:01

<u>Laboratory Sample #:</u> 27693-003 <u>MS/MSD Qualifiers:</u> None

Reference #: NAM 27693A

	Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
	PCB-1016	0.00	150	178	165	119	110	8	28-130	28	
ĺ	PCB-1260	0.00	150	167	162	111	108	3	36-132	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	99	95		97	102		35-130

Laboratory Control Sample

 Date of Extraction:
 3/3/2023
 9:40

 Date of Analysis:
 3/3/2023
 16:18

 Dup Date of Analysis:
 3/3/2023
 16:32

Laboratory Sample #: VV0303231

LCS Qualifiers: L1,

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
PCB-1016	150	189	207	126	138	9	14-130	31	✓
PCB-1260	150	161	175	107	117	8	42-130	20	

QA/QC Report for Metals

Reference #: NAM 27693A

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/6010B

Laboratory Sample #:	27688-007	Date of Extraction:	03/07/23 17:00
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Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
TCLP Arsenic	03/08/23 13:51	03/08/23 13:54	0.00	0.400	0.398	0.413	99	103	4	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: IR0307236 Date of Extraction: 03/07/23 17:00

1311/6010B

Laboratory Can	.p.c	•	Duto (=xao		J, J . , J						
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
TCLP Arsenic	03/08/23 13:43	03/08/23 13:46		0.400	0.418	0.416	105	104	0	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/ STLC CCR

Laboratory Sar	nple #: 27693-00	5 .	Date o	of Extrac	tion: 0	3/07/23 1	17:00					
Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
STLC Arsenic	03/08/23 12:52	03/08/23 12:55	2.50	1.00	3.40	3.48	90	98	2	75-125	20	
STLC Lead	03/08/23 12:52	03/08/23 12:55	1.60	1.00	2.50	2.58	90	98	3	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

1311/ STLC CCR

 Laboratory Sample #:
 IR0307237
 Date of Extraction:
 03/07/23 17:00

 LCS Date
 LCSD Date
 SPC
 %

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
STLC Arsenic	03/08/23 12:45	03/08/23 12:47	 1.00	0.968	1.00	97	100	3	80-120	20	
STLC Lead	03/08/23 12:45	03/08/23 12:47	 1.00	0.989	0.990	99	99	0	80-120	20	

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

L1 = The associated blank spike recovery was above laboratory acceptance limits.

VV0303231 8082 PCB-1016 LCSD

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

				A	nalysis	Re	quest & C	/ L	ı of	Cust	ody R	eco	rd										1		
		ORANGE COAST ANALYTICAL, IN	c.				www	.oca	ılab.d	om		Lab	Job N	lo.: _		7	19	3		Pa	ege: _		of _	4	
	Removable to the second state of the second st	3002 Dow Avenue, Suite 532 Tustin, CA 92780		ı	Phoenix, A	\Z 8							A	NALY	SIS RE	QUES	ST/P	RESE	RVAT	ON		RFC	QUESTI	FD	
		Phone: (714) 832-0064 Fax: (714) 832-0067	Legan	1	San and Company of the Company	SHOW HAVE	-0960 Fax: (480									A						TURN-AI			
	Company	CUSTOMER INFORMATION			>=====================================	SENSED WAY	JECT INFORMA				JF	-				6010B/7471A	7199					Standard:	; <u> </u>	X	-
	Company: Send Report To:	Ninyo & Moore Dennis Fee	Proje	ct Nan	***		SD 49th Street 936010	PEA				-)10B	y EPA								
		@ninyoandmoore.com	PO #:		niber.	Z 1 1 3	530010					1	0B				d mu		Σ)15B	72 Hour	: —		
	***************************************	475 Goddard	Addre	ess (Cit	ty / State):		Los Angeles, (CA	***		***	6010B	Arsenic by EPA 6010E	081A	8082	Title 22 Metals by EPA	Hexavalent Chromiu	Σ	PAHs by EPA 8270-SIM	2 6Cs by EPA 8260B	TPH-g,d,o by EPA 8015B	48 Hour	٠,		
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Company: Dit UM

Company:

On Ice: Yes/ No @

Intact:

	Analysis Request & C																											
	ORANGE	COAST ANALYTICA			www	.ocalab.	com		Lab Job No.: 2103 Page: 2							2	of _	4	_									
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(2000)	Tustin,	CA 92780		Phoeni	x, AZ 8	5040]	EQUEST	Fh	331					
	Phone: (714) 832-0064 Fax: (714) 832	-0067	Phone: ((480) 736	-0960 Fax: (480) 736-0970							_						THE STATE OF THE STATE OF	AROUN							
	CUSTOMER IN	NFORMATION			PRO	JECT INFORM	ATION							Title 22 Metals by EPA 6010B/7471A	7199					Standar	d:	Х						
Company: Ni	inyo & Moore		Project N	lame:	LAU:	SD 49th 5treet	PEA							08/	EPA													
Send Report To:	Dennis Fee		Project N	lumber:	2119	936010]				, 601	γď					į		_		98	72 Ho	ur:		
Email: <u>dfee@</u>	<u> ninyoandmoo</u>	ore.com	PO #:					***		۾ ا)10B	4		/ EPA	niun		J-SIN	ЭВ	801									
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Irv	vine, CA 92618		EDD Req								ογ EF	OCPs by EPA 8081A	EPA	Meta	int C	by F	EPA	EPA	yd c									
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Company:		Time:		Compar	ny:				Time	2:				SV	/ - St	ormv	vater			OT - Othe	er							

Relinquished By:

Company:

Date: 2-20-23

Time: 1611

Sample Integrity:

Intact:

2.0+022,0 €

On Ice: Yes No @ TM3 °C

Received For OCA By: .

Company: OCA, LA

Date:

Time:

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	Phone: (714) 832-0064 Fax: (714) 832-0067		Pŀ	none: (480) 736	-0960 Fax: (480) 736-0970													QUESTED ROUND-TII	ME
	CUSTOMER INFORMATION		500	PRO	JECT INFORMA	ATION							7100					Standard:		
Company:	Ninyo & Moore	Projec	t Name	e: LAU	SD 49th Street	PEA							0010B/7471F	Č .				1		-
Send Report To:	Dennis Fee	Projec	t Num	ber: 2119	36010									5				72 Hour	r:	
Email: <u>dfee</u>	@ninyoandmoore.com	PO #:								10B	∢		<u>ا</u> ا		-SIM	B	3015			_
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1	rime,							Time:	:											- 1

Company:

Company:

Relinquished By:

Company:

Date:

Time:

Received For OCA By:

Company: OCA, CA

SW - Stormwater

Sample Integrity:

Intact:

Date: 2-20-23

Time: 1611

OT - Other

On Icer Yes No @

2.0+0=2.1°C 2/43 VNO @ °C

	Analysis Request & C n of Custody Re								ecord								(===		
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	CUSTOMER INFORMATION		PROJECT INFORMATION								6010B/7471A	7199					Standard:	X	
Company:	Ninyo & Moore	Project Na	Project Name: LAUSD 49th Street PEA								7/80	EPA							
Send Report T		Project No	umber: 211	.936010			_	_			۸ 601	n by		_		SB	72 Hour:		
	ee@ninyoandmoore.com	PO #:						10B	4		, EP A	niur		-SII	В	801			
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\$5745900000000000000000000000000000000000	19) 753-7070 Fax:	Sampled E No. of	By: EAC				<u>}</u> }	nic	s by	s by	22 1	avale	sstos	s by	s by	g,d,	24 Hour:		
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No. of Sample				400		Preservative:	1	= lce	2	= HCl	3 :	= HNO	03	4 =	H₂SO,	4	5 = NaOH	6 = Other	
Relinquished) () Date: 2/20	7/23	Received By:			Date	ž;			Î	Sam	ıple N	Matrix	к;			DW - Drinkin	a Water	
	Time: // //	, `	1			Time	<u> </u>				C1						DVV - DIIIKiii	g water	
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	Time:		mult				e: 16		Adi							_	0.04	122.02 1243	

Intact:

Company: OCA, CA

Company:

Miriam Molina

From:

Dennis Fee <dfee@ninyoandmoore.com>

Sent:

Wednesday, March 01, 2023 12:46 PM

To:

Orange Coast Analytical

Cc:

Miriam Molina

Subject:

RE: Report, EDD and Invoice NAM 27693 LAUSD 49th Street PEA Rev1.0

Please also conduct the following lead and arsenic analysis for some of the 2.5' samples on hold:

Lead by 6010B - 27693

- B10-2.5'-045
- · B11-2.5'-029
- B13-2.5'-033
- · B16-2.5 OH \

Arsenic by 6010B - 27693

- B3-2.5'-CO6
- B4-2.5' ○○8
- B22-2.5'-010 -credit

Thanks,



Dennis Fee, EIT

Senior Project Engineer

Ninyo & Moore | Geotechnical & Environmental Sciences Consultants 475 Goddard, Suite 200 | Irvine, CA 92618 949.753.7070 (x12210) | 714.926.4048 (Cell)

35+ Years of Quality Service | ninyoandmoore.com

Minuo-Moore





From: Dennis Fee

Sent: Wednesday, March 1, 2023 11:54 AM

To: Orange Coast Analytical <ocalab@sbcglobal.net>

Cc: Miriam Molina <miriamm@ocalab.com>; NM Accounts Payable <nmaccountspayable@ninyoandmoore.com>

Subject: RE: Report, EDD and Invoice NAM 27693 LAUSD 49th Street PEA Rev1.0

Hello,

Thank you for providing these results.

Please conduct additional laboratory analysis as followed:

PCBs by EPA 8082 - 27693

- B1-0.5'~©©3
- B7-0.5'-024
- · B10-0.5'-044
- B16-0.5'-()4()
- B22-0.5'- ○○○

Sample Receipt Report

Laboratory Reference	eNAM 27693		Logged in by	HC
Received:	02/20/23 16:11	Company Name:	Ninyo & Moore	10 To 10
Method of Shipment:	Hand Delivered	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	Project Name:	LAUSD 49th Stree	t PFA
# Shipping Containers:	1	Project #:	211936010	
Sample Quantity 57 Soil				
Chain of Custody		Complete 🗸	Incomplete	None 🗌
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C).	2 The	rmometer ID: IR#3	Adjusted Temp.:	2+0=2
Shipping Intact		Yes 🗸	N/A	No 🗌
Shipping Custody Sea	als Intact	Yes 🗌	N/A 🔽	No 🗌
Samples Intact		Yes 🗸		No 🗌
Sample Custody Seal	s Intact	Yes 🗌	N/A 🔽	No 🗌
Custody Seals Signed	l & Dated	Yes 🗌	N/A 🗸	No 🗌
Proper Test Containe	rs	Yes 🗸	•	No 🗌
Proper Test Preserva	tions	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗸		No 🗌
VOAs Have Zero Hea	dspace	Yes 🗌	N/A 🗸	No 🗌
Sample Labels		Complete 🗸	Incomplete	None 🗔
Sample Information M	latches COC	Yes 🗸	N/A	No 🗔
Notes				

Client Notified		Ву	On	
	***************************************			***************************************

Orange Coast Analytical, Inc.

4

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27694

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 2/20/2023

Date Reported: 3/6/2023

Chain of Custody Received:

✓

Analytical Method: 8015B, 8081A, 8082, 8260B, 8270C, 6010B,

7471A,

Mark Noorani, Laboratory Director

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 4°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

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Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B31-0.5	27694-001	2/20/2023	2/20/2023	Soil
B31-02.5	27694-002	2/20/2023	2/20/2023	Soil
B20-0.5	27694-003	2/20/2023	2/20/2023	Soil
B20-2.5	27694-004	2/20/2023	2/20/2023	Soil
B20-5	27694-005	2/20/2023	2/20/2023	Soil
B21-0.5	27694-006	2/20/2023	2/20/2023	Soil
B21-2.5	27694-007	2/20/2023	2/20/2023	Soil
B21-5	27694-008	2/20/2023	2/20/2023	Soil
B19-0.5	27694-009	2/20/2023	2/20/2023	Soil
B19-2.5	27694-010	2/20/2023	2/20/2023	Soil
B19-5	27694-011	2/20/2023	2/20/2023	Soil
B23-0.5	27694-012	2/20/2023	2/20/2023	Soil
B23-2.5	27694-013	2/20/2023	2/20/2023	Soil
B23-5	27694-014	2/20/2023	2/20/2023	Soil
B24-0.5	27694-015	2/20/2023	2/20/2023	Soil
B24-2.5	27694-016	2/20/2023	2/20/2023	Soil
B24-5	27694-017	2/20/2023	2/20/2023	Soil
B25-0.5	27694-018	2/20/2023	2/20/2023	Soil
B25-2.5	27694-019	2/20/2023	2/20/2023	Soil
B25-5	27694-020	2/20/2023	2/20/2023	Soil
B26-0.5	27694-021	2/20/2023	2/20/2023	Soil
B26-2.5	27694-022	2/20/2023	2/20/2023	Soil
B26-5	27694-023	2/20/2023	2/20/2023	Soil
B30-0.5	27694-024	2/20/2023	2/20/2023	Soil
B30-2.5	27694-025	2/20/2023	2/20/2023	Soil
B30-5	27694-026	2/20/2023	2/20/2023	Soil
B29-0.5	27694-027	2/20/2023	2/20/2023	Soil
B29-2.5	27694-028	2/20/2023	2/20/2023	Soil
B29-5	27694-029	2/20/2023	2/20/2023	Soil
B28-0.5	27694-030	2/20/2023	2/20/2023	Soil
B28-2.5	27694-031	2/20/2023	2/20/2023	Soil
B28-5	27694-032	2/20/2023	2/20/2023	Soil
B27-0.5	27694-033	2/20/2023	2/20/2023	Soil
B27-2.5	27694-034	2/20/2023	2/20/2023	Soil
B27-5	27694-035	2/20/2023	2/20/2023	Soil
B32-2.5	27694-036	2/20/2023	2/20/2023	Soil
B32-5	27694-037	2/20/2023	2/20/2023	Soil
B32-10	27694-038	2/20/2023	2/20/2023	Soil

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Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B33-2.5	27694-039	2/20/2023	2/20/2023	Soil
B33-5	27694-040	2/20/2023	2/20/2023	Soil
B33-10	27694-041	2/20/2023	2/20/2023	Soil
B34-2.5	27694-042	2/20/2023	2/20/2023	Soil

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Extractable Fuel Hydrocarbons (EPA 8015B)

			•			
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B32-2.5	27694-036	2/20/2023 16:16	2/20/2023 12:52	2/22/2023 11:30	2/23/2023 0:24	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
DROs	<10		Octa	cosane	107	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	40-160 %	
B32-2.5	27694-036	2/20/2023 16:16	2/20/2023 12:52	2/22/2023 11:30	2/23/2023 0:24	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
MROs	120		Octa	cosane	107	
Dilution Factor: 1 Data Qualifiers: None			* Acc	c Recovery: 4	40-160 %	
B32-5	27694-037	2/20/2023 16:16	2/20/2023 12:56	2/22/2023 11:30	2/23/2023 1:07	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
DROs	<10		Octa	cosane	76	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	40-160 %	
B32-5	27694-037	2/20/2023 16:16	2/20/2023 12:56	2/22/2023 11:30	2/23/2023 1:07	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
MROs	<50		Octa	cosane	76	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	40-160 %	
B33-2.5	27694-039	2/20/2023	2/20/2023	2/22/2023	2/23/2023	Soil
		16:16	13:39	11:30	1:51	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
DROs	<10		Octa	cosane	112	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	40-160 %	

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Extractable Fuel Hydrocarbons (EPA 8015B)

	LAtractable	er uer riyaroc	arbons (EF A	1 00 130)			
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B33-2.5	27694-039	2/20/2023 16:16	2/20/2023 13:39	2/22/2023 11:30	2/23/2023 1:51	Soil	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*		
MROs	<50		Octa	cosane	112		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None		* Acc Recovery: 40-160 %					
B33-5	27694-040	2/20/2023 16:16	2/20/2023 13:42	2/22/2023	2/23/2023 2:34	Soil	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*		
DROs	<10			cosane	92		
Dilution Factor: 1				c Recovery: 4			
Data Qualifiers: None				,			
B33-5	27694-040	2/20/2023 16:16	2/20/2023 13:42	2/22/2023 11:30	2/23/2023 2:34	Soil	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*		
MROs	<50		Octa	cosane	92		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	10-160 %		
B34-2.5	27694-042	2/20/2023	2/20/2023	2/22/2023	2/23/2023	Soil	
		16:16	14:19	11:30	3:18		
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*		
DROs	<10		Octa	cosane	103		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	10-160 %		
B34-2.5	27694-042	2/20/2023	2/20/2023	2/22/2023	2/23/2023	Soil	
		16:16	14:19	11:30	3:18		
ANALYTE	mg/kg		Surre	ogate:	% RC*		
MROs	<50		Octa	cosane	103		
Dilution Factor: 1 Data Qualifiers: None			* Acc	c Recovery: 4	40-160 %		

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Extractable Fuel Hydrocarbons (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBRC0222231			2/22/2023 11:30	2/22/2023 15:00	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
DROs	<10		Octa	cosane	103	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	0-160 %	
Method Blank	MBRC0222231			2/22/2023 11:30	2/22/2023 15:00	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
MROs	<50		Octa	cosane	103	
<u>Dilution Factor:</u> 1 Data Qualifiers: None			* Acc	c Recovery: 4	0-160 %	

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Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B32-2.5	27694-036	2/20/2023 16:16	2/20/2023 12:52	2/20/2023 12:52	2/22/2023 13:45	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-σ	α -Trifluorotolu	ene 97	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B32-5	27694-037	2/20/2023 16:16	2/20/2023 12:56	2/20/2023 12:56	2/22/2023 14:04	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	ene 98	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B33-2.5	27694-039	2/20/2023 16:16	2/20/2023 13:39	2/20/2023 13:39	2/22/2023 14:24	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	ene 96	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B33-5	27694-040	2/20/2023 16:16	2/20/2023 13:42	2/20/2023 13:42	2/22/2023 14:44	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	ene 86	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B34-2.5	27694-042	2/20/2023 16:16	2/20/2023 14:19	2/20/2023 14:19	2/22/2023 15:04	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	ene 92	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

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Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBLY0222231			2/22/2023 10:00	2/22/2023 11:25	Soil
ANALYTE GROs ¹	<u>mg/kg</u> <0.20		·	ogate: α-Trifluorotolu	<u>% RC*</u> ene 103	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	

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		•		•	•			
Client Sample ID		Sample ımber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B32-2.5	27694-036 2/20/2023 2/20/2023 2/21/2023				2/21/2023	2/24/2023	Soil	
			16:16	12:52	10:30	15:14		
<u>ANALYTE</u>	CAS#	μg/kg		<u> </u>	Surrogate:	<u>% R</u>	<u>C*</u>	
Aldrin	309-00-2	<2.0		г	Decachlorobip	henyl 73		
alpha-BHC	319-84-6	< 5.0			Decacillolobip	ilellyl 73	•	
beta-BHC	319-85-7	<5.0		*	* Acceptable F	Recovery: 35-	130 %	
gamma-BHC (Lindane)	58-89-9	<5.0			* Acceptable Recovery: 35-130 %			
delta-BHC	319-86-8	<10						
Chlordane	57-74-9	<30		<u>1</u>	Dilution Factor	<u>:</u> 1		
4,4'-DDD	72-54-8	<10		Г	Data Qualifiers: None			
4,4'-DDE	72-55-9	< 5.0		=	Jata Gaaiiioi	<u> </u>		
4,4'-DDT	50-29-3	<10						
Dieldrin	60-57-1	<2.0						
Endosulfan I	959-98-8	<10						
Endosulfan II	33213-65-9	< 5.0						
Endosulfan sulfate	1031-07-8	<10						
Endrin	72-20-8	<10						
Endrin aldehyde	7421-93-4	<10						
Endrin ketone	53494-70-5	<5.0						
Heptachlor	76-44-8	<2.0						
Heptachlor epoxide	1024-57-3	<5.0						
Methoxychlor	72-43-5	<10						
Toxaphene	8001-35-2	<40						

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Client Sample ID		Sample ımber	Date Received	Date Sampled	Date Extracted	Date Analyze	d Matrix
B32-5	276	94-037	2/20/2023	2/20/2023	2/21/2023	2/24/202	23 Soil
			16:16	12:56	10:30	15:29	
ANALYTE	CAS#	μg/kg			Surrogate:	<u>%</u>	RC*
Aldrin	309-00-2	<2.0			Doogoblorobin	hanul	71
alpha-BHC	319-84-6	< 5.0			Decachlorobip	пепу	7.1
beta-BHC	319-85-7	<5.0			* Acceptable R	Recovery: :	35-130 %
gamma-BHC (Lindane)	58-89-9	<5.0			, tocoptable !		00 100 70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	s: None	
4,4'-DDE	72-55-9	< 5.0				<u></u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

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Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B33-2.5	276	94-039	2/20/2023	2/20/2023 2/21/2023 2/28/2023 S			Soil
			16:16	13:39	10:30	12:24	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% RC</u>	<u>**</u>
Aldrin	309-00-2	<2.0			Decachlorobip	henvl 87	
alpha-BHC	319-84-6	< 5.0			Decacrilorobip	nenyi o <i>i</i>	
beta-BHC	319-85-7	<5.0			* Acceptable R	Recovery: 35-1	30 %
gamma-BHC (Lindane)	58-89-9	<5.0			* Acceptable Recovery: 35-130 %		
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	s: None	
4,4'-DDE	72-55-9	< 5.0			Data Quamiore	<u></u> 110110	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	<5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

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Client Sample ID		Sample ımber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B33-5	276	94-040	2/20/2023	2/20/2023	2/21/2023	2/28/2023	Soil
			16:16	13:42	10:30	12:39	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% R0</u>	<u>)*</u>
Aldrin	309-00-2	<2.0			Dagaahlarahin	henvl 84	
alpha-BHC	319-84-6	<5.0			Decachlorobip	nenyi 64	
beta-BHC	319-85-7	< 5.0			* Acceptable R	ecovery: 35-	130 %
gamma-BHC (Lindane)	58-89-9	< 5.0			* Acceptable Recovery: 35-130 %		
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	: None	
4,4'-DDE	72-55-9	< 5.0			Data Quamiore	<u></u> 110110	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	<5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

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Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B34-2.5	276	94-042	2/20/2023	2/20/2023 2/21/2023 2/28/2023			Soil
			16:16	14:19	10:30	12:53	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% RC</u>	*
Aldrin	309-00-2	<2.0			Decachlorobip	henyl 81	
alpha-BHC	319-84-6	< 5.0			Decacillolobip	ileliyi oʻi	
beta-BHC	319-85-7	<5.0			* Acceptable R	Recovery: 35-1	30 %
gamma-BHC (Lindane)	58-89-9	<5.0			, tocoptable !	100010171.00	00 70
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1	
4,4'-DDD	72-54-8	<10			Data Qualifiers	s: None	
4,4'-DDE	72-55-9	< 5.0		•	Data Quamiore	<u></u> 110110	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	<5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	<5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

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Client Sample ID		Sample mber	Date Received	Date Sampled	Date Extracted	Date Analyz		Matrix
Method Blank	MBVV	0221231			2/21/2023	2/24/20)23	Soil
					10:30	10:52	2	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	0	% RC*	
Aldrin	309-00-2	<2.0			Decachlorobip	honyl	86	
alpha-BHC	319-84-6	<5.0			Decacrilorobip	пену	00	
beta-BHC	319-85-7	<5.0			* Acceptable R	Secovery.	35-130	%
gamma-BHC (Lindane)	58-89-9	<5.0			7 toooptable 1	(CCCVCI).	00 100	70
delta-BHC	319-86-8	<10						
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1		
4,4'-DDD	72-54-8	<10			Data Qualifiers	s: None		
4,4'-DDE	72-55-9	<5.0			Data Gaamore	<u> </u>		
4,4'-DDT	50-29-3	<10						
Dieldrin	60-57-1	<2.0						
Endosulfan I	959-98-8	<10						
Endosulfan II	33213-65-9	< 5.0						
Endosulfan sulfate	1031-07-8	<10						
Endrin	72-20-8	<10						
Endrin aldehyde	7421-93-4	<10						
Endrin ketone	53494-70-5	< 5.0						
Heptachlor	76-44-8	<2.0						
Heptachlor epoxide	1024-57-3	<5.0						
Methoxychlor	72-43-5	<10						
Toxaphene	8001-35-2	<40						

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Project #: 211936010

Polychlorinated Biphenyl's (EPA 8082)

		. ,		, ,	,		
Client Sample II)	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B31-0.5		27694-001	2/20/2023 16:16	2/20/2023 7:30	2/21/2023 9:23	2/21/2023 12:57	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<200			Decachlo	robiphenyl	42
PCB-1221	11104-28-2	<200					05 400 0/
PCB-1232	11141-16-5	<200			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<200			Dilution F	actor: 8	
PCB-1248	12672-29-6	<200			Data Qua	alifiers: D1,	
PCB-1254	11097-69-1	<200			Data Gat	<u>amioro.</u> = .,	
PCB-1260	11096-82-5	<200					
B21-0.5		27694-006	2/20/2023	2/20/2023	2/21/2023	2/21/2023	Soil
			16:16	8:03	9:23	13:12	
<u>ANALYTE</u>	CAS#	ug/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<50			Decachlo	robiphenyl	59
PCB-1221	11104-28-2	<50			* ^ 1		05 400 0/
PCB-1232	11141-16-5	<50			" Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<50			Dilution F	actor: 2	
PCB-1248	12672-29-6	<50			Data Qua	alifiers: D1,	
PCB-1254	11097-69-1	<50					
PCB-1260	11096-82-5	<50					
B29-0.5		27694-027	2/20/2023	2/20/2023	2/21/2023	2/21/2023	Soil
			16:16	10:55	9:23	13:26	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<200			Decachio	robiphenyl	52
PCB-1221	11104-28-2	<200					
PCB-1232	11141-16-5	<200			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<200			Dilution F	actor: 8	
PCB-1248	12672-29-6	<200				alifiers: D1,	
PCB-1254	11097-69-1	<200				<u> </u>	
PCB-1260	11096-82-5	<200					

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polychlorinated Biphenyl's (EPA 8082)

Client Sample IE)	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank		MBVV0220231			2/20/2023 10:00	2/21/2023 10:02	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>ə:</u>	<u>% RC*</u>
PCB-1016 PCB-1221	12674-11-2 11104-28-2	1_0			Decachlo	robiphenyl	68
PCB-1232	11141-16-5				* Accepta	able Recovery:	35-130 %
PCB-1242 PCB-1248 PCB-1254	53469-21-9 12672-29-6 11097-69-1	<25 <25 <25			Dilution F	alifiers: None	
PCB-1260	11096-82-5	<25					

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

			2 3,2 (2. 7. 0			
Client Sample ID	Lab Sampl Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B32-2.5	27694-036	6 2/20/2023	3 2/20/2023	2/20/2023	2/22/2023	Soil
		16:16	12:52	12:52	16:01	
<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/kg</u>	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
		ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	113	65-130 %	· · · · · · · · · · · · · · · · · · ·	ifiers: None		
Distribution of the traine.			Data Qual	140116		
Toluene-d8:	85	58-130 %				

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Olicant Communic ID	Lab Sample		Date	Date	Date	
Client Sample ID	Number	Received	•	Extracted	Analyzed	Matrix
B32-5	27694-037			2/20/2023	2/22/2023	Soil
		16:16	12:56	12:56	16:23	
<u>ANALYTE</u>	<u>CAS #</u>	<u>ug/kg</u>	<u>ANALYTE</u>		<u>CAS #</u>	<u>µg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl		10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	-	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy		108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5	•			
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:		ceptable % R0	Dilution Fa	actor: 1		
Dibromofluoromethane:	114	65-130 %		ifiers: None		
Toluene-d8:	85	58-130 %	<u>Data Qual</u>	moro. Morio		
4-Bromofluorobenzene:	77	40-135 %				
. D. Siliolidol Obolizollo.		.0 100 /0				

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

B33-2.5 27694-039 2/20/2023 2/20/2023 2/20/2023 2/22/2023 16:16 13:39 13:39 16:44			,	•	,		
16:16 13:39 13:39 16:44	Client Sample ID		-				Matrix
ANALYTE	B33-2.5	27694-039	9 2/20/202	3 2/20/2023	2/20/2023	2/22/2023	Soil
t-Amyl methyl ether (TAME) 994-05-8 <10 trans-1,3-Dichloropropene 10061-02-6 senzene 71-43-2 <2.0 Disopropyl ether (DIPE) 108-20-3 senzonehoromethane 74-497-5 <2.5 Ethyl t-butyl ether (ETBE) 637-92-3 senzonchloromethane 74-97-5 <2.5 Ethyl benzene 100-41-4 senzondichloromethane 75-27-4 <2.5 Ethyl benzene 100-41-4 senzondichloromethane 75-27-4 <2.5 Ethyl benzene 100-41-4 senzondichloromethane 75-27-4 <2.5 Ethyl benzene 100-41-4 senzondichloromethane 75-27-5 <2.5 Ethyl benzene 100-41-5 senzondorm 75-25-2 <2.5 Ethyl benzene 100-41-4 senzondorm 75-25-2 <2.5 Ethyl benzene 98-82-8 senzondorm 75-25-2 <2.5 Ethyl benzene 98-82-8 senzondorm 75-25-2 <2.5 Ethyl benzene 98-82-8 senzondorm 75-65-0 senzondorm 75-65-0 senzondorm 75-88-8 <2.5 Naphthalene 91-20-3 senzondorm 104-51-8 senzondorm			16:16	13:39	13:39	16:44	
t-Amyl methyl ether (TAME) 994-05-8 <10 trans-1,3-Dichloropropene 10061-02-6 Benzene 71-43-2 Benzene 71-43-2 Benzene 71-43-2 Bromobenzene 108-86-1 Bromobenzene 108-86-1 Bromodichloromethane 74-97-5 Bromodichloromethane 75-27-4 Bromodichloromethane 75-27-4 Bromodichloromethane 75-27-4 Bromodichloromethane 75-27-4 Bromomethane 75-25-2 Bromomethane 75-25-2 Bromomethane 74-83-9 Bromomethane 74-83-9 Bromomethane 104-51-8 Benze-Butylbenzene 104-51-8 Benze-Butylbenzene 104-51-8 Benze-Butylbenzene 104-51-8 Benze-Butylbenzene 104-51-8 Benze-Butylbenzene 104-51-8 Benze-Butylbenzene 104-51-8 Benze-Butylbenzene 108-90-7 Chlorobenzene 108-90-7 Chlorobenzene 108-90-7 Chlorotoluene 106-43-4 Chlorotoluene 106-43-5 Chlorotoluene 106-43-6 Chlorotoluene 106-43-7 Chlorotoluene 106-43-7 Chlorotoluene 106-6-7 Chlorotoluene 5-41-73-1 Chlorotoluene 106-6-7 Chlorotoluene 106-6-8 Chlorotoluene 106-6-7 Chlorotoluene 106-6-7 Chlorotoluene 106-6-8 Chlorotoluene 106-6-7 Chlorotoluene 106-80-5 Chlorotoluene 106-80-5	ANALYTE	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
Bromobenzene 108-86-1	t-Amyl methyl ether (TAME)	994-05-8		trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Bromochloromethane 74-97-5 <2.5 Ethylbenzene 100-41-4 <	Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromodichloromethane 75-27-4 <2.5 Hexachlorobutadiene 87-68-3 Bromoform 75-25-2 <2.5	Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl	her (ETBE)	637-92-3	<10
Bromoform 75-25-2 <2.5 Isopropylbenzene 98-82-8 Bromomethane 74-83-9 <10	Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromomethane	Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
tert-Butyl alcohol (TBA) 75-65-0 <50 Methyl t-butyl ether (MTBE) 1634-04-4 <	Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
n-Butylbenzene 104-51-8 <2.5 Methylene chloride 75-09-2 sec-Butylbenzene 135-98-8 <2.5	Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
sec-Butylbenzene 135-98-8 <2.5 Naphthalene 91-20-3 tert-Butylbenzene 98-06-6 <2.5	tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
tert-Butylbenzene 98-06-6 <2.5 n-Propylbenzene 103-65-1 <	n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
Carbon tetrachloride 56-23-5 <2.5 Styrene 100-42-5 Chlorobenzene 108-90-7 <2.5	sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
Chlorobenzene 108-90-7 <2.5 1,1,1,2-Tetrachloroethane 630-20-6 Chloroethane 75-00-3 <5.0	tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Chloroethane 75-00-3 <5.0	Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chloroform 67-66-3 <2.5 Tetrachloroethene 127-18-4 <	Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloromethane 74-87-3 <5.0 Toluene 108-88-3 2-Chlorotoluene 95-49-8 <2.5	Chloroethane	75-00-3	< 5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
2-Chlorotoluene 95-49-8 <2.5	Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
4-Chlorotoluene 106-43-4 <2.5	Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
Dibromochloromethane 124-48-1 <2.5 1,1,1-Trichloroethane 71-55-6 1,2-Dibromo-3-chloropropane 96-12-8 <5.0	2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
1,2-Dibromo-3-chloropropane 96-12-8 <5.0	4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
1,2-Dibromoethane	Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
Dibromomethane 74-95-3 <2.5 Trichlorofluoromethane 75-69-4 <	1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dichlorobenzene 95-50-1 <2.5	1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
1,3-Dichlorobenzene 541-73-1 <2.5	Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,4-Dichlorobenzene 106-46-7 <2.5	1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
Dichlorodifluoromethane 75-71-8 <2.5 Vinyl Chloride 75-01-4 < 1,1-Dichloroethane 75-34-3 <2.5	1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,1-Dichloroethane 75-34-3 <2.5	1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
1,2-Dichloroethane 107-06-2 <2.5	Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethene 75-35-4 <2.5	1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	<5.0
cis-1,2-Dichloroethene 156-59-2 <2.5	1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
trans-1,2-Dichloroethene 156-60-5 <2.5	1,1-Dichloroethene	75-35-4	<2.5				
1,2-Dichloropropane 78-87-5 <2.5	cis-1,2-Dichloroethene	156-59-2	<2.5				
1,3-Dichloropropane 142-28-9 <2.5 2,2-Dichloropropane 594-20-7 <2.5 1,1-Dichloropropene 563-58-6 <2.5 cis-1,3-Dichloropropene 10061-01-5 <2.5 Surrogate: % RC Acceptable % RC Dilution Factor: 1 Dibromofluoromethane: 111 65-130 % Data Qualifiers: None	trans-1,2-Dichloroethene	156-60-5	<2.5				
2,2-Dichloropropane 594-20-7 <2.5 1,1-Dichloropropene 563-58-6 <2.5 cis-1,3-Dichloropropene 10061-01-5 <2.5 Surrogate: % RC Acceptable % RC Dilution Factor: 1 Dibromofluoromethane: 111 65-130 % Data Qualifiers: None	1,2-Dichloropropane	78-87-5	<2.5				
1,1-Dichloropropene563-58-6<2.5cis-1,3-Dichloropropene10061-01-5<2.5	1,3-Dichloropropane	142-28-9	<2.5				
cis-1,3-Dichloropropene 10061-01-5 <2.5 Surrogate: % RC Acceptable % RC Dilution Factor: 1 Dibromofluoromethane: 111 65-130 % Data Qualifiers: None	2,2-Dichloropropane	594-20-7	<2.5				
Surrogate:% RCAcceptable % RCDilution Factor:1Dibromofluoromethane:11165-130 %Data Qualifiers:None	1,1-Dichloropropene	563-58-6	<2.5				
Dibromofluoromethane: 111 65-130 % <u>Data Qualifiers:</u> None			<2.5				
	Surrogate:	% RC Ac	ceptable % R0	Dilution Fa	actor: 1		
Toluene-d8: 87 58-130 %	Dibromofluoromethane:	111	65-130 %	Data Qual	ifiers: None		
	Toluene-d8:	87	58-130 %				
4-Bromofluorobenzene: 76 40-135 %	4-Bromofluorobenzene:	76	40-135 %				

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

		,	•	,		
Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B33-5	27694-040	0 2/20/2023	3 2/20/2023	2/20/2023	2/22/2023	Soil
		16:16	13:42	13:42	17:06	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	e	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:		ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	114	65-130 %		ifiers: None		
Toluene-d8:	87	58-130 %	<u> </u>	5.5.		
4-Bromofluorobenzene:	79	40-135 %				
(a) Change a Canat Analytical la	_	24	of 10		Davil A	00/00/0

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
В34-2.5	27694-042			2/20/2023	2/22/2023	Soil
D04-2.0	21034-042	16:16	14:19	14:19	17:27	3011
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE	17.13	CAS #	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<u>μα/κα</u> <10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	(= . = -)	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze		98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu		99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e		1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo		75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach		79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Ac	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	115	65-130 %	Data Qual	ifiers: None		
Toluene-d8: 4-Bromofluorobenzene:	86 75	58-130 % 40-135 %				

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	Date Received	Date d Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBHT022123	3		2/21/2023	2/22/2023	Soil
				15:00	10:55	
ANALYTE	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichlo	ropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl ethe	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	er (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	, ,	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	diene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ne	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolue	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl et	ther (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlor	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzen	е	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrachl	oroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrachl	oroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ne	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorob	enzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorob	enzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroe	thane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	e 96-12-8	<5.0	1,1,2-Trichloroe	thane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene		79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoron	nethane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichlorop	ropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethylk	=	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethylk		108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes		179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5	•			
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acce	eptable % RC	Dilution Fa	ctor: 1		
Dibromofluoromethane:		65-130 %	Data Qualit			
Toluene-d8:		58-130 %				
4-Bromofluorobenzene:		40-135 %				

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polynuclear Aromatic Hydrocarbons by SIM (EPA 8270C)

Client Sample ID	Lab Sa Numl	•	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B20-0.5	27694	-003	2/20/2023	2/20/2023	2/21/2023	2/21/2023	Soil
220 0.0			16:16	7:50	10:20	22:14	•
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% F</u>	<u>RC*</u>
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 64	1
Acenaphthylene:	208-96-8	<50			Milloberizerie	;-u5 0 ²	+
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13-	182 %
Benz(a)anthracene:	56-55-3	<50			•	•	
Benzo(a)pyrene:	50-33-8	<50			Dilution Facto	or: 1	
Benzo(b)fluoranthene:	205-99-2	<50					
Benzo(k)fluoranthene:	207-08-9	<50			Data Qualifie	<u>rs:</u> None	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Fluorene.	00-73-7	<50					
Dhonanthrono:	95 A1 9	∠ E0					
Phenanthrene:	85-01-8	<50					
Indeno(1,2,3-cd)pyrene:	193-39-5	<50					
Indeno(1,2,3-cd)pyrene:	193-39-5	<50 <50	2/20/2023	2/20/2023	2/21/2023	2/21/2023	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	2/20/2023 16:16	2/20/2023 8:42	2/21/2023 10:20	2/21/2023 22:45	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	16:16				
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5	193-39-5 91-20-3 27694	<50 <50 -012	16:16		10:20	22:45 <u>% F</u>	<u>RC*</u>
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE	193-39-5 91-20-3 27694 <u>CAS #</u>	<50 <50 -012 μg/kg	16:16 I		10:20 <u>Surrogate:</u> Nitrobenzene	22:45 <u>% F</u> e-d5 Dilu	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9	<50 <50 -012 μg/kg <200	16:16		10:20 <u>Surrogate:</u> Nitrobenzene	22:45 <u>% F</u>	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8	<50 <50 -012 μg/kg <200 <200	16:16		10:20 <u>Surrogate:</u> Nitrobenzene	22:45 <u>% F</u> e-d5 Dilu	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8 120-12-7	<50 <50 -012 μg/kg <200 <200 <200	16:16		10:20 <u>Surrogate:</u> Nitrobenzene	22:45 % Fe-d5 Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3	<50 <50 -012 -200 <200 <200 <200 <200	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	<50 <50 -012 -012 -200 <200 <200 <200 <200	16:16		10:20 Surrogate: Nitrobenzene * Acceptable	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2	<50 <50 -012 -012 -200 <200 <200 <200 <200 <200 <200 <20	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene:	193-39-5 91-20-3 27694 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9	<50 <50 -012 -012 -200 <200 <200 <200 <200 <200 <200	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 -012 -012 -200 <200 <200 <200 <200 <200 <200 <20	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 <-012 -200 <200 <200 <200 <200 <200 <200 <2	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	<50 <50 <-012 -200 <200 <200 <200 <200 <200 <200 <2	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0	<50 <50 <-012 -012 -200 <200 <200 <200 <200 <200 <200 <20	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <1012 -012 -200 <200 <200 <200 <200 <200 <200 <20	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted
Indeno(1,2,3-cd)pyrene: Naphthalene: B23-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene: Fluorene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0 86-73-7	<50 <50 <1012 -012 -200 <200 <200 <200 <200 <200 <200 <20	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	22:45 % Fed5 Dilu Recovery: 13-	RC* ted

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polynuclear Aromatic Hydrocarbons by SIM (EPA 8270C)

Client Sample ID	Lab Sa Num	•	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B25-0.5	27694	l-018	2/20/2023 16:16	2/20/2023 9:38	2/21/2023 10:20	2/21/2023 23:17	Soil
<u>ANALYTE</u>	CAS#	μg/kg	l		Surrogate:	<u>%</u>	RC*
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 7	72
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13	3-182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Factor	<u>or:</u> 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie	rs: None	
Benzo(k)fluoranthene:	207-08-9	<50			Data Quamo	10.	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Phenanthrene:	85-01-8	<50					
Phenanthrene:	05-01-0	~00					
Indeno(1,2,3-cd)pyrene:	193-39-5	<50					
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	2/20/2023	2/20/2023	2/21/2023	2/21/2023	Soil
Indeno(1,2,3-cd)pyrene:	193-39-5	<50 <50	2/20/2023 16:16	2/20/2023 10:05	2/21/2023 10:20	2/21/2023 23:49	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene:	193-39-5 91-20-3	<50 <50	16:16			23:49	Soil
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE	193-39-5 91-20-3 27694	<50 <50	16:16		10:20	23:49 <u>%</u>	
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene:	193-39-5 91-20-3 27694 CAS #	<50 <50 I-021 μg/kg	16:16		10:20 Surrogate: Nitrobenzene	23:49 <u>%</u> e-d5 Dil	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9	<50 <50 I-021 μg/kg <500	16:16		10:20 Surrogate:	23:49 <u>%</u> e-d5 Dil	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8	<50 <50 I-021 ug/kg <500 <500	16:16		10:20 Surrogate: Nitrobenzene	23:49 <u>%</u> e-d5 Dil	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8 120-12-7	<50 <50 I-021 μg/kg <500 <500 <500	16:16		10:20 <u>Surrogate:</u> Nitrobenzene	23:49 -d5 Dil Recovery: 13	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3	<50 <50 I-021 μg/kg <500 <500 <500 <500	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene:	193-39-5 91-20-3 27694 <u>CAS #</u> 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	<50 <50 I-021 I-021 I-021 I-021 V500 <500 <500 <500	16:16		10:20 Surrogate: Nitrobenzene * Acceptable	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene:	193-39-5 91-20-3 27694 CAS # 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2	<50 <50 <-021 μg/kg <500 <500 <500 <500 <500	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9	<50 <50 I-021 μg/kg <500 <500 <500 <500 <500 <500	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benzo(a)anthracene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 I-021 μg/kg <500 <500 <500 <500 <500 <500 <500	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 I-021 Ug/kg <500 <500 <500 <500 <500 <500 <500	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	<50 <50 I-021 Ug/kg <500 <500 <500 <500 <500 <500 <500 <600	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0	<50 <50 <50 I-021 I-021 I-021 V500 <500 <500 <500 <500 <500 <600 <650	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <50 I-021 I-021 -021 -020 -020	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted
Indeno(1,2,3-cd)pyrene: Naphthalene: B26-0.5 ANALYTE Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene: Fluorene:	193-39-5 91-20-3 27694 27694 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0 86-73-7	<50 <50 <50 l-021 -500 <500 <500 <500 <500 <500 <600 <650 <65	16:16		10:20 Surrogate: Nitrobenzene * Acceptable Dilution Factor	23:49 % e-d5 Dil Recovery: 13 or: 10	RC* uted

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polynuclear Aromatic Hydrocarbons by SIM (EPA 8270C)

Client Sample ID	Lab Sa Num	•	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBGS02	221231			2/21/2023	2/21/2023	Soil
					10:20	14:46	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% R</u>	<u>C*</u>
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 11	7
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13-	182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Factor	<u>or:</u> 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie	rs: None	
Benzo(k)fluoranthene:	207-08-9	<50			Data Quamio	10.	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Phenanthrene:	85-01-8	<50					
Indeno(1,2,3-cd)pyrene:	193-39-5	<50					
Naphthalene:	91-20-3	<50					

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B20-0.5			27694-003	2/20/2023 16:	16 2/20/20)23 7:50	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Arsenic	6010B	3.2	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Barium	6010B	62	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Chromium	6010B	13	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Cobalt	6010B	7.0	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Copper	6010B	12	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Lead	6010B	18	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 13:54		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Nickel	6010B	11	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Vanadium	6010B	25	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
	Zinc	6010B	75	mg/kg	02/21/23 09:40	02/23/23 15:22		1	
B21-0.5			27694-006	2/20/2023 16:	16 2/20/20)23 8:03	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	38	mg/kg	02/21/23 10:15	02/23/23 12:36		1	
	Lead	6010B	42	mg/kg	02/21/23 10:15	02/23/23 12:36		1	
				_					

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B19-0.5			27694-009	2/20/2023 16:	16 2/20/20)23 8:20	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	2.4	mg/kg	02/21/23 10:15	02/23/23 12:39		1	
	Lead	6010B	63	mg/kg	02/21/23 10:15	02/23/23 12:39		1	
B23-0.5			27694-012	2/20/2023 16:	16 2/20/20	023 8:42	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Barium	6010B	55	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Chromium	6010B	7.1	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Cobalt	6010B	5.0	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Copper	6010B	11	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Lead	6010B	38	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Mercury	7471A	0.24	mg/kg	02/21/23 17:00	02/23/23 13:56		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Nickel	6010B	5.9	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Vanadium	6010B	20	mg/kg	02/21/23 09:40	02/23/23 15:25		1	
	Zinc	6010B	54	mg/kg	02/21/23 09:40	02/23/23 15:25		1	

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B24-0.5			27694-015	2/20/2023 16:	16 2/20/20	9:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 10:15	02/23/23 12:41		1	
	Lead	6010B	66	mg/kg	02/21/23 10:15	02/23/23 12:41		1	
B25-0.5			27694-018	2/20/2023 16:	16 2/20/20	023 9:38	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Arsenic	6010B	3.6	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Barium	6010B	86	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Chromium	6010B	15	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Cobalt	6010B	8.1	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Copper	6010B	14	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Lead	6010B	21	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Mercury	7471A	0.11	mg/kg	02/21/23 17:00	02/23/23 13:58		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Nickel	6010B	9.8	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Vanadium	6010B	32	mg/kg	02/21/23 09:40	02/23/23 15:28		1	
	Zinc	6010B	56	mg/kg	02/21/23 09:40	02/23/23 15:28		1	

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

lient Sampl	e ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B26-0.5			27694-021	2/20/2023 16:	16 2/20/20	023 10:05	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Arsenic	6010B	2.8	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Barium	6010B	83	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Chromium	6010B	15	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Cobalt	6010B	18	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Copper	6010B	18	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Lead	6010B	34	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 14:00		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Nickel	6010B	10	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Vanadium	6010B	30	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
	Zinc	6010B	98	mg/kg	02/21/23 09:40	02/23/23 15:31		1	
B30-0.5			27694-024	2/20/2023 16:	16 2/20/20	023 10:25	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 10:15	02/23/23 12:50		1	
	Lead	6010B	11	mg/kg	02/21/23 10:15	02/23/23 12:50		1	

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	e ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B29-0.5			27694-027	2/20/2023 16:	16 2/20/20	023 10:55	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.0	mg/kg	02/21/23 10:15	02/23/23 12:52		1	
	Lead	6010B	34	mg/kg	02/21/23 10:15	02/23/23 12:52		1	
B28-0.5			27694-030	2/20/2023 16:	16 2/20/20)23 11:58	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	2.5	mg/kg	02/21/23 10:15	02/23/23 12:55		1	
	Lead	6010B	5.5	mg/kg	02/21/23 10:15	02/23/23 12:55		1	
B27-0.5			27694-033	2/20/2023 16:	16 2/20/20)23 12:19	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.5	mg/kg	02/21/23 10:15	02/23/23 12:57		1	
	Lead	6010B	4.6	mg/kg	02/21/23 10:15	02/23/23 12:57		1	

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

lient Sampl	e ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B32-2.5			27694-036	2/20/2023 16:	16 2/20/20)23 12:52	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Barium	6010B	130	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Chromium	6010B	19	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Cobalt	6010B	12	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Copper	6010B	19	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Lead	6010B	6.0	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Mercury	7471A	0.11	mg/kg	02/21/23 17:00	02/23/23 14:01		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Nickel	6010B	12	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Vanadium	6010B	44	mg/kg	02/21/23 09:40	02/23/23 15:34		1	
	Zinc	6010B	60	mg/kg	02/21/23 09:40	02/23/23 15:34		1	

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	e ID		Lab Sample Number	Date Received	Date Sample		Matrix		
B32-5			27694-037	2/20/2023 16:	16 2/20/20)23 12:56	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Barium	6010B	130	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Chromium	6010B	19	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Cobalt	6010B	13	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Copper	6010B	17	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Lead	6010B	4.6	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Mercury	7471A	0.15	mg/kg	02/21/23 17:00	02/23/23 14:06		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Nickel	6010B	12	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Vanadium	6010B	49	mg/kg	02/21/23 09:40	02/23/23 15:37		1	
	Zinc	6010B	64	mg/kg	02/21/23 09:40	02/23/23 15:37		1	

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B33-2.5			27694-039	2/20/2023 16:	•		Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Arsenic	6010B	3.9	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Barium	6010B	160	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Beryllium	6010B	0.58	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Chromium	6010B	24	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Cobalt	6010B	16	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Copper	6010B	23	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Lead	6010B	6.7	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Mercury	7471A	0.11	mg/kg	02/21/23 17:00	02/23/23 14:05		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Nickel	6010B	17	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Vanadium	6010B	55	mg/kg	02/21/23 09:40	02/23/23 15:40		1	
	Zinc	6010B	77	mg/kg	02/21/23 09:40	02/23/23 15:40		1	

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	e ID		Lab Sample Number	Date Received	Date Sample		Matrix		
B33-5			27694-040	2/20/2023 16:	16 2/20/20	23 13:42	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Barium	6010B	150	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Beryllium	6010B	0.57	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Chromium	6010B	22	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Cobalt	6010B	15	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Copper	6010B	22	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Lead	6010B	5.3	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 14:10		1	
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Nickel	6010B	15	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Vanadium	6010B	52	mg/kg	02/21/23 09:40	02/23/23 15:43		1	
	Zinc	6010B	71	mg/kg	02/21/23 09:40	02/23/23 15:43		1	

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sampl		Matrix	
B34-2.5			27694-042	2/20/2023 16:	16 2/20/20	23 14:19	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Barium	6010B	140	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Beryllium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Chromium	6010B	19	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Cobalt	6010B	12	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Copper	6010B	18	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Lead	6010B	24	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Mercury	7471A	0.12	mg/kg	02/21/23 17:00	02/23/23 14:12		1
	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Nickel	6010B	12	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Silver	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Vanadium	6010B	41	mg/kg	02/21/23 09:40	02/23/23 15:46		1
	Zinc	6010B	120	mg/kg	02/21/23 09:40	02/23/23 15:46		1

Lab Reference # NAM 27694 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample I	D		Lab Sample Number	Date Received	Date Sample		Matrix		
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBHV0221231	Antimony	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Arsenic	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Barium	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Beryllium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Cadmium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Chromium	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Cobalt	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Copper	6010B	<5.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Lead	6010B	<0.80	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221233	Mercury	7471A	<0.10	mg/kg	02/21/23 17:00	02/23/23 13:23		1	
MBHV0221231	Molybdenum	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Nickel	6010B	<1.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Selenium	6010B	<4.8	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Silver	6010B	< 0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Thallium	6010B	<2.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Vanadium	6010B	<0.50	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
MBHV0221231	Zinc	6010B	<5.0	mg/kg	02/21/23 09:40	02/23/23 14:17		1	
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBHV0221232	Arsenic	6010B	<2.0	mg/kg	02/21/23 10:15	02/23/23 11:49		1	
MBHV0221232	Lead	6010B	<0.80	mg/kg	02/21/23 10:15	02/23/23 11:49		1	

QA/QC Report

for

Extactable Fuel Hydrocarbons (EPA 8015B/8015M)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 2/22/2023 11:30 <u>Date of Analysis:</u> 2/22/2023 16:26 <u>Dup Date of Analysis:</u> 2/22/2023 16:48

<u>Laboratory Sample #:</u> 27690-007 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27694

		SPC						ACP	ACP	
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
EFH as Diesel	250	1000	989	849	74	60	15	8-193	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Octacosane	146	129		103	100		40-160

Laboratory Control Sample

 Date of Extraction:
 2/22/2023
 11:30

 Date of Analysis:
 2/22/2023
 15:44

 Dup Date of Analysis:
 2/22/2023
 16:05

 Laboratory Sample #:
 RC0222231

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
EFH as Diesel	1000	813	744	81	74	9	17-180	42	

for

Volatile Fuel Hydrocarbons (EPA 8015B)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 2/22/2023 10:00 <u>Date of Analysis:</u> 2/22/2023 12:33 <u>Dup Date of Analysis:</u> 2/22/2023 12:52

<u>Laboratory Sample #:</u> 27691-001 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27694

		SPC						ACP	ACP		
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual	
VFH as Gasoline	0.00	0.250	0.187	0.169	75	68	10	20-144	50		

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
α - α - α -Trifluorotoluene	97	89		90	108		32-153

Laboratory Control Sample

 Date of Extraction:
 2/22/2023
 10:00

 Date of Analysis:
 2/22/2023
 11:44

 Dup Date of Analysis:
 2/22/2023
 12:13

 Laboratory Sample #:
 LY0222231

LCS Qualifiers: None

	SPC						ACP	ACP	
Analyte	CONC	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
VFH as Gasoline	0.250	0.193	0.198	77	79	3	38-130	27	

QA/QC Report for

Organochlorine Pesticides (EPA 8081A)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

 Date of Extraction:
 2/22/2023
 9:20

 Date of Analysis:
 2/24/2023
 11:36

 Dup Date of Analysis:
 2/24/2023
 11:50

<u>Laboratory Sample #:</u> 27693-047 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27694

Analyte	R	Spike Conc.	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Aldrin	0.00	20.0	10.3	9.95	51	50	3	14-130	28	
alpha-BHC	0.00	20.0	10.2	10.1	51	50	1	13-130	29	
beta-BHC	0.00	20.0	11.7	11.4	58	57	3	13-140	26	
gamma-BHC (Lindane)	0.00	20.0	10.8	10.6	54	53	2	15-130	26	
4,4'-DDD	0.00	20.0	15.5	15.5	77	77	0	18-169	20	
4,4'-DDE	0.00	20.0	14.5	14.8	73	74	2	30-165	20	
4,4'-DDT	0.00	20.0	16.0	15.9	80	79	1	34-170	20	
delta-BHC	0.00	20.0	12.9	13.0	64	65	1	18-143	27	
Dieldrin	0.00	20.0	12.7	12.9	63	64	2	24-147	20	
Endosulfan I	0.00	20.0	11.9	12.0	59	60	1	13-158	23	
Endosulfan II	0.00	20.0	12.9	12.6	64	63	2	19-143	29	
Endosulfan sulfate	0.00	20.0	11.9	11.2	59	56	6	D-158	59	
Endrin	0.00	20.0	13.7	13.9	69	69	1	26-156	25	
Endrin Aldehyde	0.00	20.0	10.1	9.20	50	46	9	D-148	59	
Endrin ketone	0.00	20.0	11.4	10.9	57	54	4	D-147	36	
Heptachlor	0.00	20.0	9.79	9.43	49	47	4	10-130	30	
Heptachlor epoxide	0.00	20.0	11.5	11.6	57	58	1	19-134	24	
Methoxychlor	0.00	20.0	14.0	14.1	70	71	1	12-165	32	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	84	84		88	79		35-130

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 2/21/2023
 10:30

 Date of Analysis:
 2/24/2023
 11:06

 Dup Date of Analysis:
 2/24/2023
 11:21

 Laboratory Sample #:
 VV0221231

LCS/LCSD Qualifiers: R7,

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Aldrin	20.0	11.6	9.32	58	47	22	7-130	31	
alpha-BHC	20.0	11.6	9.13	58	46	24	10-130	25	
beta-BHC	20.0	12.1	9.84	61	49	21	12-137	23	
gamma-BHC (Lindane)	20.0	11.8	9.40	59	47	23	14-130	22	R7,
4,4'-DDD	20.0	16.2	14.6	81	73	10	25-161	20	
4,4'-DDE	20.0	15.4	12.9	77	64	18	20-154	20	

for

Organochlorine Pesticides (EPA 8081A) Reporting Units: ppb

	Spike						ACP	ACP	
Analyte	Conc.	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
4,4'-DDT	20.0	16.9	14.7	84	74	14	26-164	20	
delta-BHC	20.0	13.2	11.6	66	58	13	17-137	24	
Dieldrin	20.0	13.6	11.5	68	57	17	18-138	21	
Endosulfan I	20.0	13.8	10.4	69	52	28	14-142	23	R7,
Endosulfan II	20.0	14.3	13.4	72	67	6	18-148	20	
Endosulfan sulfate	20.0	13.1	13.3	66	67	2	11-159	32	
Endrin	20.0	14.5	12.2	73	61	17	22-141	21	
Endrin Aldehyde	20.0	10.9	10.6	54	53	3	2-140	40	
Endrin ketone	20.0	12.8	12.4	64	62	3	12-145	22	
Heptachlor	20.0	11.3	8.91	56	45	24	5-130	29	
Heptachlor epoxide	20.0	12.4	10.1	62	50	20	14-130	22	
Methoxychlor	20.0	15.4	12.2	77	61	23	29-157	20	R7,

for

Polychlorinated Biphenyl's (EPA 8082)

Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

 Date of Extraction:
 2/20/2023
 10:00

 Date of Analysis:
 2/21/2023
 10:46

 Dup Date of Analysis:
 2/21/2023
 11:00

<u>Laboratory Sample #:</u> 27671-005 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27694

Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
PCB-1016	0.00	150	131	119	87	79	10	28-130	28	
PCB-1260	0.00	150	138	132	92	88	4	36-132	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	67	63		74	75		35-130

Laboratory Control Sample

 Date of Extraction:
 2/20/2023
 10:00

 Date of Analysis:
 2/21/2023
 10:16

 Dup Date of Analysis:
 2/21/2023
 10:31

 Laboratory Sample #:
 VV0220231

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
PCB-1016	150	119	117	79	78	2	14-130	31	
PCB-1260	150	136	148	91	99	8	42-130	20	

for

Volatile Organic Compounds (8260B)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

 Date of Extraction:
 2/22/2023
 9:26

 Date of Analysis:
 2/22/2023
 12:23

 Dup Date of Analysis:
 2/22/2023
 12:45

<u>Laboratory Sample #:</u> 27690-006 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27694

		Spike						ACP	ACP	
Analyte	R	Conc.	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
Benzene	0.00	10.0	9.84	9.57	98	96	3	70-138	20	
Chlorobenzene	0.00	10.0	11.0	10.6	110	106	4	70-132	20	
1,1-Dichloroethene	0.00	10.0	6.13	6.29	61	63	3	46-130	20	
Toluene	0.00	10.0	9.84	9.23	98	92	6	70-130	20	
Trichloroethene	0.00	10.0	10.2	9.85	102	99	3	70-135	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	113	111	
Toluene-d8	89	86	
4-Bromofluorobenzene	78	80	

LCS	LCSD	Qual
112	109	
90	84	
86	74	

ACP % RC
65-130
58-130
40-135

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 2/22/2023
 9:26

 Date of Analysis:
 2/22/2023
 11:39

 Dup Date of Analysis:
 2/22/2023
 12:01

 Laboratory Sample #:
 HT0222231

 LCS/LCSD Qualifiers:
 None

	Spike						ACP	ACP	
Analyte	Conc.	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
Benzene	10.0	10.5	9.80	105	98	7	70-134	20	
Chlorobenzene	10.0	11.6	10.8	116	108	7	70-130	20	
1,1-Dichloroethene	10.0	7.24	6.73	72	67	7	48-130	20	
Toluene	10.0	10.3	9.49	103	95	8	70-130	20	
Trichloroethene	10.0	10.9	10.3	109	103	6	70-132	20	

for

Semi-Volatile Organic Compounds (8270C)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

 Date of Extraction:
 2/21/2023
 10:20

 Date of Analysis:
 2/21/2023
 16:23

 Dup Date of Analysis:
 2/21/2023
 16:54

Laboratory Sample #: 27693-026

MS/MSD Qualifiers: M2, M2, S1,

Reference #: NAM 27694

Analyte	R	Spike Conc.	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Acenaphthene	0.00	20.0	12.6	12.5	63	63	1	11-138	20	
Acenaphthylene	0.00	20.0	12.1	12.2	61	61	1	54-130	32	
Anthracene	0.00	20.0	10.5	10.3	52	51	2	43-130	30	
Benz(a)anthracene	0.00	20.0	12.7	12.0	63	60	6	42-133	30	
Benzo(a)pyrene	0.00	20.0	12.9	12.5	64	63	3	32-148	30	
Benzo(b)fluoranthene	0.00	20.0	17.5	17.2	88	86	2	42-140	30	
Benzo(g,h,i)perylene	0.00	20.0	14.8	14.4	74	72	3	D-195	30	
Benzo(k)fluoranthene	0.00	20.0	19.4	20.5	97	102	6	25-146	30	
Chrysene	0.00	20.0	14.7	14.6	74	73	1	44-140	35	
Dibenz(a,h)anthracene	0.00	20.0	13.5	13.2	68	66	2	D-200	35	
Fluoranthene	0.00	20.0	13.6	13.2	68	66	3	43-130	30	
Fluorene	0.00	20.0	11.9	11.7	59	58	2	70-130	30	M2,
Indeno(1,2,3-cd)pyrene	0.00	20.0	13.7	13.3	69	67	3	D-151	30	
Naphthalene	0.00	20.0	12.0	11.9	60	59	1	36-130	30	
Phenanthrene	0.00	20.0	12.1	11.6	61	58	4	70-130	30	M2,
Pyrene	0.00	20.0	15.8	15.6	79	78	1	25-145	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Nitrobenzene-d5	133	138	✓	145	136	✓	8-134

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 2/21/2023
 10:20

 Date of Analysis:
 2/21/2023
 15:19

 Dup Date of Analysis:
 2/21/2023
 15:51

 Laboratory Sample #:
 GS0221231

 LCS/LCSD Qualifiers:
 L2, S1,

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Acenaphthene	20.0	14.4	13.8	72	69	4	24-137	20	
Acenaphthylene	20.0	14.9	14.0	75	70	6	54-126	32	
Anthracene	20.0	13.4	12.7	67	63	5	43-118	27	
Benz(a)anthracene	20.0	15.0	14.3	75	72	5	42-133	21	

for

Semi-Volatile Organic Compounds (8270C) Reporting Units: ppb

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Benzo(a)pyrene	20.0	14.0	13.9	70	69	1	32-148	26	
Benzo(b)fluoranthene	20.0	20.9	19.9	104	100	5	42-140	28	
Benzo(g,h,i)perylene	20.0	16.0	16.1	80	81	1	D-195	30	
Benzo(k)fluoranthene	20.0	19.8	20.4	99	102	3	25-146	22	
Chrysene	20.0	16.5	16.1	82	81	2	44-140	35	
Dibenz(a,h)anthracene	20.0	15.1	15.2	75	76	1	D-200	35	
Fluoranthene	20.0	15.7	15.2	78	76	3	43-121	27	
Fluorene	20.0	14.1	13.2	71	66	7	72-108	20	L2,
Indeno(1,2,3-cd)pyrene	20.0	15.4	15.4	77	77	0	D-151	30	
Naphthalene	20.0	13.6	13.3	68	67	2	36-120	25	
Phenanthrene	20.0	14.4	14.0	72	70	3	70-130	20	
Pyrene	20.0	17.2	16.7	86	84	3	27-154	20	

QA/QC Report for Metals

Reference #: NAM 27694 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27693-001 **Date of Extraction:** 02/21/23 09:40

Laboratory Ga	111 pic #. 27000 00		Date	JI EXII GO	tion. O	2/2 1/20	JJ.70					
Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Antimony	02/23/23 14:33	02/23/23 14:42	0.00	20.0	3.01	3.30	15	16	9	75-125	20	M2,
Arsenic	02/23/23 14:33	02/23/23 14:42	0.00	20.0	18.8	19.0	94	95	1	75-125	20	
Barium	02/23/23 14:33	02/23/23 14:42	84.0	20.0	101	100	85	80	1	75-125	20	
Beryllium	02/23/23 14:33	02/23/23 14:42	0.00	20.0	17.5	17.7	88	89	1	75-125	20	
Cadmium	02/23/23 14:33	02/23/23 14:42	0.00	20.0	16.4	16.7	82	84	2	75-125	20	
Chromium	02/23/23 14:33	02/23/23 14:42	12.0	20.0	30.9	31.5	94	98	2	75-125	20	
Cobalt	02/23/23 14:33	02/23/23 14:42	6.90	20.0	24.2	24.8	87	89	2	75-125	20	
Copper	02/23/23 14:33	02/23/23 14:42	9.70	20.0	27.7	28.2	90	93	2	75-125	20	
Lead	02/23/23 14:33	02/23/23 14:42	17.0	20.0	34.8	36.5	89	98	5	75-125	20	
Molybdenum	02/23/23 14:33	02/23/23 14:42	0.00	20.0	16.0	16.2	80	81	1	75-125	20	
Nickel	02/23/23 14:33	02/23/23 14:42	7.10	20.0	24.5	25.2	87	91	3	75-125	20	
Selenium	02/23/23 14:33	02/23/23 14:42	0.00	20.0	17.1	16.8	86	84	2	75-125	20	
Silver	02/23/23 14:33	02/23/23 14:42	0.00	20.0	18.6	18.8	93	94	1	75-125	20	
Thallium	02/23/23 14:33	02/23/23 14:42	0.00	20.0	13.8	14.0	69	70	1	75-125	20	M2,
Vanadium	02/23/23 14:33	02/23/23 14:42	28.0	20.0	46.8	47.8	94	99	2	75-125	20	
Zinc	02/23/23 14:33	02/23/23 14:42	48.0	20.0	69.9	70.2	110	111	0	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

6010B/7471A

Laboratory Sample #: HV0221231

Date of Extraction: 02/21/23 09:40

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Antimony	02/23/23 14:20	02/23/23 14:30	-	20.0	17.3	20.1	86	101	15	80-120	20	
Arsenic	02/23/23 14:20	02/23/23 14:30	-	20.0	17.1	19.7	86	99	14	80-120	20	
Barium	02/23/23 14:20	02/23/23 14:30	-	20.0	17.5	20.6	88	103	16	80-120	20	
Beryllium	02/23/23 14:20	02/23/23 14:30	-	20.0	16.7	19.7	84	99	16	80-120	20	
Cadmium	02/23/23 17:52	02/23/23 14:30	-	20.0	18.4	18.8	92	94	2	80-120	20	
Chromium	02/23/23 14:20	02/23/23 14:30	-	20.0	17.6	20.9	88	104	17	80-120	20	
Cobalt	02/23/23 14:20	02/23/23 14:30	-	20.0	17.4	21.5	87	108	21	80-120	20	R2,
Copper	02/23/23 14:20	02/23/23 14:30	-	20.0	16.4	20.1	82	101	20	80-120	20	
Lead	02/23/23 14:20	02/23/23 14:30		20.0	17.8	20.4	89	102	14	80-120	20	
Molybdenum	02/23/23 14:20	02/23/23 14:30	-	20.0	16.9	19.5	84	98	14	80-120	20	
Nickel	02/23/23 14:20	02/23/23 14:30		20.0	18.4	21.5	92	108	16	80-120	20	
Selenium	02/23/23 14:20	02/23/23 14:30	-	20.0	16.1	19.1	81	96	17	80-120	20	
Silver	02/23/23 14:20	02/23/23 14:30	-	20.0	19.4	20.8	97	104	7	80-120	20	
Thallium	02/23/23 14:20	02/23/23 14:30	-	20.0	17.8	19.8	89	99	11	80-120	20	
Vanadium	02/23/23 14:20	02/23/23 14:30	-	20.0	16.3	19.1	81	96	16	80-120	20	
Zinc	02/23/23 14:20	02/23/23 14:30	-	20.0	17.5	20.2	88	101	14	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27693-003

Date of Extraction: 02/21/23 10:15

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	02/23/23 11:56	02/23/23 12:15	0.00	20.0	19.1	20.3	96	101	6	75-125	20	
Lead	02/23/23 11:56	02/23/23 12:15	5.60	20.0	22.1	23.9	83	91	8	75-125	20	

QA/QC Report for Metals

Reference #: NAM 27694 Reporting units: ppm

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: HV0221232 Date of Extraction: 02/21/23 10:15

Control Spike Duplicate (LCSD) 6010B/7471A

Date of Extraction: 02/21/23 10:15

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	02/23/23 11:51	02/23/23 11:53	 20.0	18.1	17.8	91	89	2	80-120	20	
Lead	02/23/23 11:51	02/23/23 11:53	 20.0	19.3	19.0	96	95	2	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sar	mple #: 27693-00	1	Date o	of Extrac	tion: 0	2/21/23 1	17:00					
Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Mercury	02/23/23 13:34	02/23/23 12:35	0.22	1.00	0.827	0.830	61	61	0	80-120	20	M2,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: HV0221233 Date of Extraction: 02/21/23 17:00

6010B/7471A

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Mercury	02/27/23 15:13	02/27/23 15:14	 1.00	1.13	1.13	113	113	0	80-120	20	

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

L2 = The associated blank spike recovery was below laboratory acceptance limits.

GS0221231 8270C Fluorene LCS/LCSD

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable.

27693-001 6010B Antimony MS/MSD 27693-001 6010B Mercury MS/MSD 6010B Thallium 27693-001 MS/MSD 8270C Phenanthrene 27693-026 MS/MSD

M2 = Matrix spike recovery was low.

27693-026 8270C Fluorene MS/MSD

R2 = RPD/RSD exceeded the laboratory acceptance limit.

HV0221231 6010B Cobalt LCS/LCSD

R7 = LFB/LFBD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

 VV0221231
 8081A
 Endosulfan I
 LCS/LCSD

 VV0221231
 8081A
 gamma-BHC (Lindane)
 LCS/LCSD

 VV0221231
 8081A
 Methoxychlor
 LCS/LCSD

S1 = Surrogate recovery was above laboratory acceptance limits.

 27693-026
 8270C
 Nitrobenzene-d5
 MSD

 GS0221231
 8270C
 Nitrobenzene-d5
 LCS/LCSD

S8 = The analysis of the sample required a dilution such that the surrogate recovery calculation does not provide any useful information. The associated blank spike recovery was acceptable.

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100

%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100

RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

49 of 49

see attached explanation.

ND Analyte Not Detected

		Analysis Re	quest & (1.0	f C	ustody Re	ecor	d			<u> </u>	3		,				
ORANGE COAST AN	ALYTICAL, INC.		14/14/14/	ocalab	COI	m	Lab .	lob N	o.: _		L	10	9		P	age: _	/	f 3
3002 Dow Avenue, Si		4620 East Elw	ood Street, Suit			•••		A	NALY	SIS RE	OUF	ST / P	RESE	RVAT	ION :			
Tustin, CA 92780		Phoenix, AZ 8		· C ¬												<u> </u>		
Phone: (714) 832-0064	Fax: (714) 832-0067		5-0960 Fax: (480)	736-0970)												 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	IESTED DUND-TIME
CUSTOMER INFORMATION		PRC	JECT INFORMA	TION							71A	66					Standard:	X
Company: Ninyo & Moore	Project N	lame: LAU	SD 49th Street	PEA	28000000						Title 22 Metals by EPA 6010B/7471A	EPA 7199					Standard.	
Send Report To: Dennis Fee	Project N	lumber: 211	936010								6010	by E					72 Hour:	
Email: dfee@ninyoandmoore.com	PO #:						1 _	10B	₫		EPA	irm		SIM	m	30151		***
Address: 475 Goddard	Address	(City / State):	Los Angeles, C	ΣA			010	4 60	3081,	082	s by	Trom	Σ	1270	32601	PA 8	48 Hour:	
Irvine, CA 92618	EDD Req	uired:				****	PA 6	y EP/	PA 8	PA8	letal	. t	by P	PA 8	PA 8	by E		
Phone: (949) 753-7070 Fax:	Sampled	By: EAC.					by E	nic b	by E	by E	22 №	valeı	stos	by E	by E	g,d,o	24 Hour:	
Customer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix		Container Type	Lead by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	Title	Hexavalent Chromium by	Asbestos by PLM	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	REMARKS / I	NSTRUCTIONS
B31-0.5	1	2/20/23	0730	55		loz jar		<u> </u>		X							######################################	
B31-2.5	3		0732	t		J											Hold	
820-0.5			0750			Section (Section)	\times	X			X	X	X	X				
320-2.5	- Till-mannur dage		0752			A-111/A-11-11-11-11-11-11-11-11-11-11-11-11-11											Hold	
820-5	200		0758	and the second s													Hold	- 116
B21-05	- Service Serv		0803				\times	X		X								
B21-2.5			0805			and the second											4012	
B21-5	12.0		0808														Hold	
B19-0.5			0820			and the second	X	X										
819-2.5			0825	- Lynn													146	
819-5			0829			A Chromosomia											Hold	
B23-0.5	and the second s		0842	- Anna California			\times	\times			\times	X	\times	\sim				
B23-2.5	and the second s		0844	and distribution		Document T											HOH	
B23 - 5			0847														Hold	
	od of Shipment: Ha		livered		Pi	reservative:	1	= lce	2	= HC	3	= HN	O ₃	4 =	: H₂SC)4	5 = NaOH	6 = Other
Relinquished By:	Date: 2/20/23	Received By:				Date	:				Sar	nple i	Matri	x:			DW - Drinkin	g Water
	Time: Walk 1616					Time	:				G	iW - 6	iroun	ıdwat	er			
Company: Ninyo > Moory		Company:													-		AQ - Aqueou	S
Relinquished By:	Date:	Received By:				Date	:				٧	۷W - ۱	Wast	ewate	er		SS - Soil / Soli	ld
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Relinquished By:	Date:	Received For C	CA By:			Date				3	Sar	nple I	ntegr	ity:			4	1024,6
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	Analysis Request & U 1 of Custody R	ecor	'a								
ORANGE COAST ANALYTICAL, IN	C. www.ocalab.com	Lab J	lob No.	:	211	00	4		Page: _	of	_3
3002 Dow Avenue, Suite 532	4620 East Elwood Street, Suite 4		ANA	ALYSIS F	REQUES	ST / PI	RESEF	RVATIC	ON		
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067	Phoenix, AZ 85040 Phone: (480) 736-0960 Fax: (480) 736-0970									REQUE TURN-ARO	
CUSTOMER INFORMATION	PROJECT INFORMATION				471A	199				Standard:	Х
Company: Ninyo & Moore	Project Name: LAUSD 49th Street PEA]			7/80	PA 7					
Send Report To: Dennis Fee	Project Number: 211936010				601(by E			<u>a</u>	72 Hour:	
Email: <u>dfee@ninyoandmoore.com</u>	PO #:]	10B	∢ .	EPA	ium		-SIM	B 3015		
Address: 475 Goddard	Address (City / State): Los Angeles CA	10B	601	381	þ	. io	Σ	1 2	260B	40.11	

VOCs by EPA 826 TPH-g,d,o by EPA Arsenic by EPA 6 Address (City / State): OCPs by EPA 80 Title 22 Metals PAHs by EPA 82 48 Hour: PCBs by EPA 80 Hexavalent Ch Asbestos by PL Irvine, CA 92618 EDD Required: Phone: (949) 753-7070 Fax: Sampled By: 24 Hour: No. of **Customer Sample IDs** Sample Date Container Type Sample Time Containers REMARKS / INSTRUCTIONS SS 902 jar 2/20/23 0900 0905 Hold (to ld 0910 0938 Hold 0947 Hold 1009 1012 1025 B30-2.5 1028 Hol B30-5 1031 Hole 1055 1100

	2				
No. of Samples:	Method of Shipment:	nd delivered	Preservative: 1 = Ice 2 = F	ICI $3 = HNO_3$ $4 = H_2SO_4$	5 = NaOH 6 = Other
Relinquished By:	Date: 7/20/23		Date:	Sample Matrix:	DW - Drinking Water
The second secon	Time: /6/6		Time:	CIAL Crawadouatan	_
Company: Ninva + Moor	4	Company:		GW - Groundwater	AQ - Aqueous
Relinquished By:	Date:	Received By:	Date:	WW - Wastewater	SS - Soil / Solid
	Time:		Time:	CVA/ Channel and	·
Company:		Company:		SW - Stormwater	OT - Other
Relinquished By:	Date:	Received For OCA By:	Date: 2-20-2 3	Sample Integrity:	40200436
	Time:	made	Time: 1616		4.0+004.06 (VOC) NO. @ 2143°C
Company:		Company: OLA, LA		Intact: On Ice:	(Yes) No @OC_

Company: OLA, LK

Analysis Request & C) of Custody Record ORANGE COAST ANALYTICAL, INC. www.ocalab.com Analysis Request & C) of Custody Record Www.ocalab.com ANALYSIS REQUEST / PRESERVATION ANALYSIS REQUEST / PRESERVATION

3002 Dow Avenue, Su	ite 532		ood Street, Sui	te 4			. А :	NALYS	SIS RE	QUES	5T / PI	RESEF	RVATI	ON -			
Tustin, CA 92780 Phone: (714) 832-0064 Fa	эх: (714) 832-0067	Phoenix, AZ 8 Phone: (480) 736	5-0960 Fax: (480)) 736-0970	ı												UESTED OUND-TIME
CUSTOMER INFORMATION		PRC	JECT INFORMA	ATION						171A	199					Standard:	
Company: Ninyo & Moore	Project N	lame: LAU	SD 49th Street	PEA						Title 22 Metals by EPA 6010B/7471A	PA 7						
Send Report To: Dennis Fee	Project N	lumber: 211	936010							6010	by E		_		В	72 Hour:	
Email: <u>dfee@ninyoandmoore.com</u>	PO #:		- Total				10B	4		EPA	nium		-SIM	8	8015		
Address: 475 Goddard	Address ((City / State):	Los Angeles, C	CA	·	5010	A 60	8081	8082	ls by	hron	Σ	8270	8260	EPA	48 Hour:	
Irvine, CA 92618	EDD Requ	VIII.				by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	Meta	Hexavalent Chromium	Asbestos by PLM	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B		
Phone: (949) 753-7070 Fax:	Sampled No. of	BY: EAC		1	Sec.	d by	anic l	s by	s by	22 (avale	estos	ls by	s by	-g,d,	24 Hour:	
Customer Sample IDs	Containers	Sample Date	Sample Time	Sample Matrix	Container Type	Lead	Arse	OCF	PCB	ŢŢ	Hex	Asb	PAH	Ş	TPH	REMARKS /	INSTRUCTIONS
B29-5	\ \	2/20/23	1103	SS	902 jar											Hold	
B28-0-5		ı	1158	(***************************************	\times	$1\times$										
B28-2.5		T Linkship	1203													Hold	
B28 - 5	A PARTY DESCRIPTION OF THE PARTY DESCRIPTION O	Military and the second	1204													Hold	
327-0.5			1219	and the second second		X	X										114 31
B27-2.5			1221													1-1014	700
827-5			1223													14016	
332 - 2.5	<		1252		902.jos/ 400As			\times		\searrow				X	X	, , , ,	3.0VBW
B37 5	5.5		1256		900 Jac / 460As			\supset		$\overline{\mathbf{x}}$				$\frac{1}{}$	Š	ļ	
1332-10			1304		902,000			-							-	Hold	
B33-2.5			1339		903/41095			\searrow		X				X	X	1.00	<u></u>
833 - 5	5		1342					X		\supset				\Rightarrow			
B33-10			1356		702.30y											Hold	
B34-2.5	5	-	1419	1	902300/	-	 	X						X		riola	
No. of Samples: 14 Method	of Shipment: Hand	delivere	I		Preservative:	1	. = lce		= HCl	<u>~ √</u> 1	= HN	 О-	4 =	H₂SC	1 <u> </u>	5 = NaOH	6 = Other
nulture talenda	Date: 2/20/23	Received By:			Dat				1			<u>∪₃</u> Matri:		11250	4		
Relinquisnea By:	Time: 1616				Tim				l	Juli	iipic i	VIGUI	۸.			DW - Drinkir	ng Water
Company: Nayo! Mosre	1916	Company:			11111	с.				G	W - G	iroun	dwate	er		AQ - Aqueou	ıs
Relinquished By:	Date:	Received By:			Dat	e:				W	/W - \	Waste	ewate	r		00 0 11 / 0	
	Time:				Tim	e:										SS - Soil / So	ılα
Company:		Company:								S۱	W - St	ormv	vater			OT - Other	
Relinquished By:	Date:	Received For C	CA By:		Dat	e: 2.	<i>ن</i> 2	-23	;	San	nple I	ntegr	ity:			4.0 +	024,56
	Time:				Tim	e: /6	116									4.0 t	U2#3
Company:		Company: OCF, CF							Inta	ect:			On Id	e:(Ye	es// No @ _	°C	

Sample Receipt Report

	~		1		
Laboratory Reference	ENAM 27694	***************************************		Logged in by	HC
Received:	02/20/23 16	5:16	Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Deliver	,	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler		Project Name:	LAUSD 49th Street	t PEA
# Shipping Containers:			Project #:	211936010	
Sample Quantity 42 Soil					
Chain of Custody			Complete 🗸	Incomplete	None 🗌
Samples On Ice	÷		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)	4	Thermomete	er ID: IR#3	Adjusted Temp.:	4+0=4
Shipping Intact			Yes 🗸	N/A 🗌	No 🗌
Shipping Custody Sea	als Intact		Yes 🗌	N/A 🗸	No 🗌
Samples Intact			Yes 🗸		No 🗌
Sample Custody Seal	s Intact		Yes 🗌	N/A 🗹	No 🗌
Custody Seals Signed	d & Dated		Yes 🗌	N/A 🗹	No 🗌
Proper Test Container	rs		Yes 🗸		No 🗌
Proper Test Preserva	tions		Yes 🗸		No 🗌
Samples Within Hold	Times		Yes 🗸		No 🗌
VOAs Have Zero Hea	dspace		Yes 🗌	N/A 🗸	No 🗌
Sample Labels			Complete 🗸	Incomplete	None 🗌
Sample Information M	latches COC		Yes 🗸	N/A	No 🗌
Notes					
			•		

Ву

Client Notified



LA Testing Order: 332303090 CustomerID: 320RAN77

CustomerPO:

ProjectID:

Mark Noorani Orange Coast Analytical, Inc. 3002 Dow Avenue Suite 532 **Tustin, CA 92780**

Phone: (714) 832-0064 (714) 832-0067 Fax: 2/22/2023 10:35 AM Received:

Analysis Date: 2/28/2023 Collected: 2/20/2023

Test Report: Asbestos Analysis via P larized Light Micr scopy, Qualitative

ample	Description	Appearance	Result	Notes	
1 332303090-0001	B20-0.5	Brown/White Fibrous Heterogeneous	Chrysotile		
2 332303090-0002	B23-0.5	Brown/Black/Clear Fibrous Heterogeneous	None Detected		
3 332303090-0003	B25-0.5	Brown/Gray Non-Fibrous Heterogeneous	None Detected		
4 332303090-0004	B26-0.5	Brown/Red/Black Non-Fibrous Heterogeneous	None Detected		

Analyst(s)

Rammy Nasry (2) Tony Salgado (2)

Michael Chapman, Laboratory Manager or other approved signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing. LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. LA Testing suggests that samples reported as none detected undergo additional analysis via TEM to avoid the possibility of false negatives. Samples analyzed by LA Testing Huntington Beach, CA

Initial report from 02/28/2023 14:19:09

OrderID: 332303090



Asbestos Chain of Custody LA Testing Order Number (Lab Use Only):

#332303090

LA TESTING 5431 INDUSTRIAL DRIVE HUNTINGTON BEACH, CA 92649

PHONE: (714)828-4999 FAX: (714)761-2713

Company : Orange	Coast Analytical	2-10-10-10-10-10-10-10-10-10-10-10-10-10-		ng-Bill to: Same					
Street: 3002 Dow A			Third Party Billing I	requires written authorizati	on from third party				
City: Tustin		te/Province: CA	Zip/Postal Code: 9278		ntry: USA				
Report To (Name):	Mark Noorani		Fax #:		-				
Telephone #: 7148			Email Address: mar	kn@ocalab.com, ocal	ab@sbcglobal.net				
Project Name/Numl									
Please Provide Res				S. State Samples Tak	en: Yes				
*For TEM Air 3 hours/6	6 Hours 24 Hi	rs 48 Hrs o schedule.*There is a premi	ium charge for 3 Hour TEM AF	4 Days S Days HERA or EPA Level II TAT.	You will be asked to sign				
PCM - Air	orm for this service. Analys	TEM - Air	with LA Testing's Terms and	TEM- Dust	alytical Price Guide.				
☐ NIOSH 7400		☐ AHERA 40 CI	FR. Part 763	☐ Microvac - ASTM	D 5755				
W/ OSHA 8hr. TV	VA	☐ NIOSH 7402		☐ Wipe - ASTM D64					
PLM - Bulk (reporti	ng limit)	☐ EPA Level II		☐ Carpet Sonication					
☑ PLM EPA 600/R-		☐ ISO 10312		Soil/Rock/Vermiculite					
☐ PLM EPA NOB (TEM - Bulk		☐ PLM CARB 435 -	The second secon				
Point Count		☐ TEM EPA NO	В	PLM CARB 435 -					
□ 400 (<0.25%) □	1000 (<0.1%)	☐ NYS NOB 198	.4 (non-friable-NY)	☐ TEM CARB 435 -	B (0.1% sensitivity)				
Point Count w/Gravi	metric	☐ Chatfield SOP		☐ TEM CARB 435 - C (0.01% sens					
□ 400 (<0.25%) □	1000 (<0.1%)	☐ TEM Mass An	alysis-EPA 600 sec. 2.5	☐ EPA Protocol (Se	mi-Quantitative)				
☐ NYS 198.1 (friab	le in NY)	TEM - Water: El	PA 100.2	☐ EPA Protocol (Qu	antitative)				
■ NYS 198.6 NOB	(non-friable-NY)	☐ Waste ☐ Drinking	Other:						
☐ NIOSH 9002 (<1	%)	All Fiber Sizes	☐ Waste ☐ Drinking						
Samplers Name:			learly Identify Homog Samplers Signature:		Date/Time				
Sample #		Sample Description	on	HA # (Bulk)	Sampled				
1	B20-0.5				2/20/23 0750				
2	B23-0.5				2/20/23 0842				
3	B25-0.5	110			2/20/23 00938				
4	B26-0.5				2/20/23 1005				
	·								
Client Sample # (s)	611.	00 40 4	-1-1	Total # of Samples:	4				
Relinquished (Clien	nt):	Date:	2/21/23	Time	: 1500				
Received (Lab):	mily Mendoral	Lourner Date:	2 22 23	Time	: 10:35 AM				
Comments/Special	Instructions: PLM Q	,	pages						

PREPARED FOR

Attn: Mark Noorani Orange Coast Analytical Inc 3002 Dow Ave, Suite 532 Tustin, California 92780

Generated 2/28/2023 10:43:53 AM

JOB DESCRIPTION

211936010

JOB NUMBER

570-128723-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780

Eurofins Calscience

Job Notes

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The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Generated 2/28/2023 10:43:53 AM

Authorized for release by Sandy Tat, Project Manager I Sandy.Tat@et.eurofinsus.com (714)895-5494 2

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Definitions/Glossary

Client: Orange Coast Analytical Inc Job ID: 570-128723-1

Project/Site: 211936010

Qualifiers

HPLC/IC

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Calscience

Page 4 of 15 2/28/2023

Case Narrative

Client: Orange Coast Analytical Inc

Project/Site: 211936010

Job ID: 570-128723-1

Job ID: 570-128723-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-128723-1

Comments

No additional comments.

Receipt

The samples were received on 2/22/2023 1:54 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.1° C.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Orange Coast Analytical Inc Job ID: 570-128723-1

Project/Site: 211936010

Client Sample ID: B20-0.5 Lab Sample ID: 570-128723-1

No Detections.

Client Sample ID: B23-0.5 Lab Sample ID: 570-128723-2

No Detections.

Client Sample ID: B25-0.5 Lab Sample ID: 570-128723-3

No Detections.

Client Sample ID: B26-0.5 Lab Sample ID: 570-128723-4

AnalyteResult
Chromium, hexavalentQualifierRLMDL
400UnitDil Fac
ug/KgDMethodPrep TypeTotal/NA

Page 6 of 15

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

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2/28/2023

Client Sample Results

Client: Orange Coast Analytical Inc Job ID: 570-128723-1

Project/Site: 211936010

Method: SW846 7199 - Chromium, Hexavalent (IC)

230 J

Chromium, hexavalent

Client Sample ID: B20-0.5 Date Collected: 02/20/23 07:50 Date Received: 02/22/23 13:54							Las Gam	ple ID: 570-12 Matrix	: Solid
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 04:19	10
Client Sample ID: B23-0.5							Lab Sam	ple ID: 570-12	8723-2
Date Collected: 02/20/23 08:42								Matrix	: Solid
Date Received: 02/22/23 13:54									
Analyte	Result	Qualifier	RL_	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 05:44	10
Client Sample ID: B25-0.5							Lab Sam	ple ID: 570-12	8723-3
Date Collected: 02/20/23 09:38									: Solid
Date Received: 02/22/23 13:54									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	190	ug/Kg		02/27/23 01:30	02/27/23 05:55	10
Client Sample ID: B26-0.5							Lab Sam	ple ID: 570-12	8723-4
Date Collected: 02/20/23 10:05									: Solid
Date Received: 02/22/23 13:54									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

400

190 ug/Kg

02/27/23 01:30 02/27/23 06:07

2/28/2023

QC Sample Results

Client: Orange Coast Analytical Inc Job ID: 570-128723-1

Project/Site: 211936010

Chromium, hexavalent

Chromium, hexavalent

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 570-307132/1-A

Matrix: Solid

Analysis Batch: 307133

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307132

 Analyte
 Result
 Qualifier
 RL
 MDL up/Kg
 Unit
 D up/Kg
 Prepared 02/27/23 01:30
 Analyzed 2/27/23 03:36
 Dil Fac 02/27/23 03:36

Lab Sample ID: LCS 570-307132/2-A

Matrix: Solid

Analysis Batch: 307133

Spike

Analyte

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307132

Rec
Added

Result Qualifier Unit D Rec Limits

19250

21790

ug/Kg

ug/Kg

20100

Lab Sample ID: LCSD 570-307132/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 307133** Prep Batch: 307132 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chromium, hexavalent 20000 22350 80 - 120 ug/Kg

Lab Sample ID: 570-128723-1 MS Client Sample ID: B20-0.5 **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 307133** Prep Batch: 307132 Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

19900

ND

Lab Sample ID: 570-128723-1 MSD

Matrix: Solid

Analysis Batch: 307133

Sample Sample Spike MSD MSD

Client Sample ID: B20-0.5
Prep Type: Total/NA
Prep Batch: 307132

Rec RPD

Analyte Result Qualifier Added Limits RPD Limit Result Qualifier Unit %Rec Chromium, hexavalent ND 20200 18180 90 75 - 125 25 ug/Kg 18

2/28/2023

80 - 120

75 - 125

96

QC Association Summary

Client: Orange Coast Analytical Inc Project/Site: 211936010 Job ID: 570-128723-1

HPLC/IC

Prep Batch: 307132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-128723-1	B20-0.5	Total/NA	Solid	3060A	
570-128723-2	B23-0.5	Total/NA	Solid	3060A	
570-128723-3	B25-0.5	Total/NA	Solid	3060A	
570-128723-4	B26-0.5	Total/NA	Solid	3060A	
MB 570-307132/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 570-307132/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 570-307132/3-A	Lab Control Sample Dup	Total/NA	Solid	3060A	
570-128723-1 MS	B20-0.5	Total/NA	Solid	3060A	
570-128723-1 MSD	B20-0.5	Total/NA	Solid	3060A	

Analysis Batch: 307133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-128723-1	B20-0.5	Total/NA	Solid	7199	307132
570-128723-2	B23-0.5	Total/NA	Solid	7199	307132
570-128723-3	B25-0.5	Total/NA	Solid	7199	307132
570-128723-4	B26-0.5	Total/NA	Solid	7199	307132
MB 570-307132/1-A	Method Blank	Total/NA	Solid	7199	307132
LCS 570-307132/2-A	Lab Control Sample	Total/NA	Solid	7199	307132
LCSD 570-307132/3-A	Lab Control Sample Dup	Total/NA	Solid	7199	307132
570-128723-1 MS	B20-0.5	Total/NA	Solid	7199	307132
570-128723-1 MSD	B20-0.5	Total/NA	Solid	7199	307132

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Lab Chronicle

Client: Orange Coast Analytical Inc

Project/Site: 211936010

Lab Sample ID: 570-128723-1

Matrix: Solid

Job ID: 570-128723-1

Date Collected: 02/20/23 07:50 Date Received: 02/22/23 13:54

Client Sample ID: B20-0.5

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.53 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 04:19	YO8L	EET CAL 4
	Instrumen	t ID: IC33								

Lab Sample ID: 570-128723-2 Client Sample ID: B23-0.5 Date Collected: 02/20/23 08:42 **Matrix: Solid**

Date Received: 02/22/23 13:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.52 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 05:44	YO8L	EET CAL 4
	Instrumer	nt ID: IC33								

Lab Sample ID: 570-128723-3 Client Sample ID: B25-0.5 **Matrix: Solid**

Date Collected: 02/20/23 09:38 Date Received: 02/22/23 13:54

Dil Initial Batch Batch Final Batch Prepared **Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed Analyst Total/NA Prep 3060A 2.49 g 100 mL 307132 02/27/23 01:30 YO8L **EET CAL 4** Total/NA Analysis 7199 4 mL 4 mL 307133 02/27/23 05:55 YO8L EET CAL 4 10 Instrument ID: IC33

Client Sample ID: B26-0.5 Lab Sample ID: 570-128723-4 Date Collected: 02/20/23 10:05 **Matrix: Solid**

Date Received: 02/22/23 13:54

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.51 g	100 mL	307132	02/27/23 01:30	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	307133	02/27/23 06:07	YO8L	EET CAL 4

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Orange Coast Analytical Inc Job ID: 570-128723-1

Project/Site: 211936010

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

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Method Summary

Client: Orange Coast Analytical Inc

Project/Site: 211936010

MethodMethod DescriptionProtocolLaboratory7199Chromium, Hexavalent (IC)SW846EET CAL 4

Protocol References:

3060A

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Alkaline Digestion (Chromium, Hexavalent)

Job ID: 570-128723-1

EET CAL 4

SW846

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Sample Summary

Client: Orange Coast Analytical Inc

Project/Site: 211936010

Lab Sample ID Client Sample ID Matrix Collected Received Solid 02/20/23 07:50 02/22/23 13:54 570-128723-1 B20-0.5 570-128723-2 B23-0.5 Solid 02/20/23 08:42 02/22/23 13:54 B25-0.5 Solid 570-128723-3 02/20/23 09:38 02/22/23 13:54 B26-0.5 Solid 02/20/23 10:05 02/22/23 13:54 570-128723-4

1

Job ID: 570-128723-1

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- 4

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128723 CHAIN OF CUSTODY RECORD

		Calscien	ice						,WO	#:/1:AB:	JSE ON	ĿΆ.				1	DATE:									
	ıncoln Way Garden Grove, CA 928 urier service / sample drop off inform			ineus com or a	call us											F	AGE.			1		_ OF			1	
	RATORY CLIENT:		.o_sales@edion	nada com or c	zan us.				CL	IENT	PRC	JEC	T NAI	ΛΕ/Ν	IUME	ER				P(O NC	5				
		t Analytical, Inc.								1936										27	'694					
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TEL.	7148320064	E-MAIL. mai	kn@ocalab co	om											REC	UE	STE) AN	IALY	/SES	}					-
TURN	AROUND TIME (Rush surcharges may ap	ply to any TAT not 'ST.	ANDARD"):									Ρ	ease o	heck t	ox or	fill in b	lank as	need	ed							
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SPECI	AL INSTRUCTIONS			***************************************		T		T	1		4					□ Terra				Σ	9 0	218				
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LAB.	SAMPLE ID	SAME	PLING	MATRIX	NO OF	Unpreserved	Preserved	Field Filtered	□ (6)Hd1 □	□ TPH(d) □ DRO	모	_	BTEX / MTBE	VOCs (8260)	Oxygenates (8260)	Prep (5035) □ En Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	Hs [2 Me	(i)	0	OPPs by 8141	þ	
ONFA		DATE	TIME	WATRIA	CONT	5	Pre	Fie			F	TPH	ВТ	8	ŏ	Pre	}s	Pe	PC	PA	12.	ŏ	T0C	l g	ਹ	
	B20-0 5	2/20/23	7 50	SS	1				<u> </u>									3			<u></u>	Х				
2	B23-0 5	2/20/23	8 42	ss	1																	Х				
3	B25-0 5	2/20/23	9 38	SS	1																	Х				
4	B26-0 5	2/20/23	10 05	ss	1																	Х				
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2.1/2.1 50/1

06/02/14 Revision











Login Sample Receipt Checklist

Client: Orange Coast Analytical Inc Job Number: 570-128723-1

Login Number: 128723 List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

Creator. Pater, Jayesii		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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13

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27694B

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 3/29/2023

Date Reported: 4/6/2023

Chain of Custody Received: 🔽

Analytical Method: 8082,

Mark Noorani, Laboratory Director

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27694B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 4ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27694B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B21-0.5	27694-006	2/20/2023	2/20/2023	Soil
B19-0.5	27694-009	2/20/2023	2/20/2023	Soil
B23-0.5	27694-012	2/20/2023	2/20/2023	Soil
B24-0.5	27694-015	2/20/2023	2/20/2023	Soil
B28-0.5	27694-030	2/20/2023	2/20/2023	Soil
B27-0.5	27694-033	2/20/2023	2/20/2023	Soil

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27694B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polychlorinated Biphenyl's (EPA 8082)

Client Sample ID)	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B21-0.5		27694-006	2/20/2023 16:16	2/20/2023 8:03	3/29/2023 12:52	3/31/2023 20:31	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>):</u>	% RC*
PCB-1016	12674-11-2	<100			Decachlo	robiphenyl	93
PCB-1221	11104-28-2	<100					
PCB-1232	11141-16-5	<100			* Accepta	ble Recovery: 3	35-130 %
PCB-1242	53469-21-9	<100			Dilution F	actor: 4	
PCB-1248	12672-29-6	<100			Data Qua	llifiers: D1,	
PCB-1254	11097-69-1	<100			<u>Baia aa</u>	<u></u>	
PCB-1260	11096-82-5	<100					
B19-0.5		27694-009	2/20/2023	2/20/2023	3/29/2023	3/31/2023	Soil
			16:16	8:20	12:52	18:49	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>ə:</u>	% RC
PCB-1016	12674-11-2	420			Decachlo	robiphenyl	97
PCB-1221	11104-28-2	<75					DE 400.0/
PCB-1232	11141-16-5	<75			* Accepta	ble Recovery: 3	35-130 %
PCB-1242	53469-21-9	<75			Dilution F	actor: 3	
PCB-1248	12672-29-6	<75			Data Qua	llifiers: D2,	
PCB-1254	11097-69-1	250					
PCB-1260	11096-82-5	97					
B23-0.5		27694-012	2/20/2023 16:16	2/20/2023 8:42	3/29/2023 12:52	3/31/2023 20:45	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<200			Decachlo	robiphenyl	70
PCB-1221	11104-28-2	<200					
PCB-1232	11141-16-5	<200			* Accepta	ble Recovery: 3	35-130 %
PCB-1242	53469-21-9	<200			Dilution F	actor: 8	
	12672-29-6	<200			·		
PCB-1248					בווו) בזבנו	IIITIERS' DI.	
PCB-1248 PCB-1254	11097-69-1	<200 <200			<u>Data Qua</u>	llifiers: D1,	

Lab Reference #: NAM 27694B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polychlorinated Biphenyl's (EPA 8082)

Client Sample ID)	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B24-0.5		27694-015	2/20/2023 16:16	2/20/2023 9:00	3/29/2023 12:52	3/31/2023 21:00	Soil
ANALYTE	CAS#	μg/kg			Surrogate	9 <u>:</u>	% RC*
PCB-1016	12674-11-2	<200			Decachlo	robiphenyl	69
PCB-1221	11104-28-2	<200					
PCB-1232	11141-16-5	<200			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<200			Dilution F	actor: 8	
PCB-1248	12672-29-6	<200			Data Oua	alifiers: D1,	
PCB-1254	11097-69-1	<200			<u>Data Gae</u>	<u></u>	
PCB-1260	11096-82-5	<200					
B28-0.5		27694-030	2/20/2023	2/20/2023	3/29/2023	3/31/2023	Soil
			16:16	11:58	12:52	21:14	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>ə:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	84
PCB-1221	11104-28-2	<25					05 400 0/
PCB-1232	11141-16-5	<25			^ Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
B27-0.5		27694-033	2/20/2023	2/20/2023	3/29/2023	3/31/2023	Soil
			16:16	12:19	12:52	21:29	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>9:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	88
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			" Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					

Lab Reference #: NAM 27694B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polychlorinated Biphenyl's (EPA 8082)

Client Sample ID)	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank		MBVV0329231			3/29/2023 12:52	3/31/2023 17:36	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate		% RC*
PCB-1016	12674-11-2	1=0			Decachlo	robiphenyl	89
PCB-1221 PCB-1232	11104-28-2 11141-16-5	1=0			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Oua	alifiers: None	
PCB-1254	11097-69-1	<25			<u>Data Qua</u>	unicis. None	
PCB-1260	11096-82-5	<25					

QA/QC Report

for

Polychlorinated Biphenyl's (EPA 8082)

Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 3/29/2023 12:52 <u>Date of Analysis:</u> 3/31/2023 18:20 <u>Dup Date of Analysis:</u> 3/31/2023 18:34

<u>Laboratory Sample #:</u> 27694-009 <u>MS/MSD Qualifiers:</u> None

Reference #: NAM 27694B

Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
PCB-1016	420	150	472	483	35	42	2	28-130	28	
PCB-1260	97.0	150	222	212	83	77	5	36-132	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	92	103		93	99		35-130

Laboratory Control Sample

 Date of Extraction:
 3/29/2023
 12:52

 Date of Analysis:
 3/31/2023
 17:50

 Dup Date of Analysis:
 3/31/2023
 18:05

 Laboratory Sample #:
 VV0329231

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
PCB-1016	150	108	108	72	72	0	14-130	31	
PCB-1260	150	118	124	79	83	5	42-130	20	

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

D2 = Sample required dilution due to high concentration of target analyte.

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

9 of 9

see attached explanation.

ND Analyte Not Detected

		Analysis Re	quest & (1.0	f C	ustody Re	ecor	d			<u> </u>	3		,				
ORANGE COAST AN	ALYTICAL, INC.		14/14/14/	ocalab	COI	m	Lab .	lob N	o.: _	`	L	10	9		P	age: _	/ 0	f 3
3002 Dow Avenue, Si		4620 East Elw	ood Street, Suit			•••		A	NALY	SIS RE	OUF	ST / P	RESE	RVAT	ION :			
Tustin, CA 92780		Phoenix, AZ 8		· C ¬												<u> </u>		
Phone: (714) 832-0064	Fax: (714) 832-0067		5-0960 Fax: (480)	736-0970)												 (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)	IESTED DUND-TIME
CUSTOMER INFORMATION		PRC	JECT INFORMA	TION							71A	66					Standard:	X
Company: Ninyo & Moore	Project N	lame: LAU	SD 49th Street	PEA	28000000						Title 22 Metals by EPA 6010B/7471A	EPA 7199					Standard.	
Send Report To: Dennis Fee	Project N	lumber: 211	936010								6010	by E					72 Hour:	
Email: dfee@ninyoandmoore.com	PO #:	PO #:						10B	₫		EPA	irm		SIM	m	30151		***
Address: 475 Goddard	Address	(City / State):	Los Angeles, C	ΣA			010	4 60	3081,	082	s by	Trom	Σ	1270	32601	PA 8	48 Hour:	
Irvine, CA 92618	EDD Req	uired:	****	PA 6	y EP/	PA 8	PA 8	letal	. t	by P	PA 8	PA 8	by E					
Phone: (949) 753-7070 Fax:	Sampled	By: EAC.					by E	nic b	by E	by E	22 №	valeı	stos	by E	by E	g,d,o	24 Hour:	
Customer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix		Container Type	Lead by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	Title	Hexavalent Chromium by	Asbestos by PLM	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	REMARKS / I	NSTRUCTIONS
B31-0.5	1	2/20/23	0730	55		loz jar		<u> </u>		X							######################################	
B31-2.5	3		0732	t		J											Hold	
820-0.5			0750			Section (Section)	\times	X			X	X	X	X				
320-2.5	- Till-mannur dage		0752			A-111/A-11-11-11-11-11-11-11-11-11-11-11-11-11											Hold	
820-5	200		0758	and the second s													Hold	- 116
B21-05	- Service Serv		0803				\times	X		\times								
B21-2.5			0805			and the second											4012	
B21-5	12.0		0808														Hold	
B19-0.5			0820			and the second	X	X										
819-2.5			0825	- Lynn													146	
819-5			0829			A Chromosomia Line											Hold	
B23-0.5	and the second s		0842	- Anna California			\times	\times			\times	X	\times	\sim				
B23-2.5	and the second s		0844	and distribution		Document T											HOH	
<u> 823 - 5</u>	*		0847														Hold	
	od of Shipment: Ha		livered		Pi	reservative:	1	= lce	2	= HC	3	= HN	O ₃	4 =	: H₂SC)4	5 = NaOH	6 = Other
Relinquished By:	Date: 2/20/23	Received By:				Date	:				Sar	nple i	Matri	x:			DW - Drinkin	g Water
	Time: Walk 1616					Time	:				G	iW - 6	iroun	ıdwat	er			
Company: Ninyo > Moory		Company:													-		AQ - Aqueou	S
Relinquished By:	Date:	Received By:				Date	:				٧	۷W - ۱	Wast	ewate	er		SS - Soil / Soli	ld
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	Analysis Request & U 1 of Custody R	ecor	'a								
ORANGE COAST ANALYTICAL, IN	C. www.ocalab.com	Lab J	lob No.	:	211	00	4		Page: _	of	_3
3002 Dow Avenue, Suite 532	4620 East Elwood Street, Suite 4	ANALYSIS REQUEST / PRESERVAT							ON		
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067	Phoenix, AZ 85040 Phone: (480) 736-0960 Fax: (480) 736-0970									REQUE TURN-ARO	
CUSTOMER INFORMATION	PROJECT INFORMATION				471A	199				Standard:	Х
Company: Ninyo & Moore	Project Name: LAUSD 49th Street PEA]			7/80	PA 7					
Send Report To: Dennis Fee	Project Number: 211936010				601(by E			<u>a</u>	72 Hour:	
Email: <u>dfee@ninyoandmoore.com</u>	PO #:]	10B	∢ .	EPA	ium		-SIM	B 3015		
Address: 475 Goddard	Address (City / State): Los Angeles CA	10B	601	381	þ	. io	Σ	1 2	260B	40.11	

VOCs by EPA 826 TPH-g,d,o by EPA Arsenic by EPA 6 Address (City / State): OCPs by EPA 80 Title 22 Metals PAHs by EPA 82 48 Hour: PCBs by EPA 80 Hexavalent Ch Asbestos by PL Irvine, CA 92618 EDD Required: Phone: (949) 753-7070 Fax: Sampled By: 24 Hour: No. of **Customer Sample IDs** Sample Date Container Type Sample Time Containers REMARKS / INSTRUCTIONS SS 902 jar 2/20/23 0900 0905 Hold (to ld 0910 0938 Hold 0947 Hold 1009 1012 1025 B30-2.5 1028 Hol B30-5 1031 Hole 1055 1100

. ,	2				
No. of Samples:	Method of Shipment:	nd delivered	Preservative: 1 = Ice 2 = F	ICI $3 = HNO_3$ $4 = H_2SO_4$	5 = NaOH 6 = Other
Relinquished By:	Date: 7/20/23		Date:	Sample Matrix:	DW - Drinking Water
The second secon	Time: /6/6		Time:	CIAL Crawadouatan	_
Company: Ninva + Moor	4	Company:		GW - Groundwater	AQ - Aqueous
Relinquished By:	Date:	Received By:	Date:	WW - Wastewater	SS - Soil / Solid
	Time:		Time:	CVA/ Channel and	·
Company:		Company:		SW - Stormwater	OT - Other
Relinquished By:	Date:	Received For OCA By:	Date: 2-20-2 3	Sample Integrity:	40200436
	Time:	made	Time: 1616		4.0+004.06 (VOC) NO. @ 2143°C
Company:		Company: OLA, LA		Intact: On Ice:	(Yes) No @OC_

Company: OLA, LK

Analysis Request & C) of Custody Record ORANGE COAST ANALYTICAL, INC. www.ocalab.com Analysis Request & C) of Custody Record Www.ocalab.com Analysis Request & C) of Custody Record Analysis Request & C) of Custody Record Page: 3 of 3 Analysis Request & C) of Custody Record Analysis Request & C) of Custody Record

(A)	3002 Dow Avenue, S	uite 532			4620 East	Elw	ood Street, Suit	te 4					Α	NALY:	SIS R	EQUES	ST/P	RESE	RVATI	ON.			
Constitutional	Tustin, CA 92780 Phone: (714) 832-0064	Fax: (714) 832-0067			Phoenix, A		35040 6-0960 Fax: (480)	736-09	970														JESTED DUND-TIME
	CUSTOMER INFORMATION					PRO	DJECT INFORMA	TION								Title 22 Metals by EPA 6010B/7471A	199					Standard:	Х
Company:	Ninyo & Moore	**************************************	Proj	ect N	ame:	LAL	JSD 49th Street	PEA]				7/80	EPA 7199						
Send Repo			Proj	ect N	umber:	211	936010									. 601	ا yd ر		-		3B	72 Hour:	
Email:	dfee@ninyoandmoore.com		PO #	t:			-1000-1					_ <u>_</u>	108	٩		, EP.	niur		J-SIN	В	EPA 8015B		
Address:	475 Goddard		Add	ress (City / State):	:	Los Angeles, C	A			11	by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	ls by	Hexavalent Chromium by	ΣZ	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	EPA	48 Hour:	
•,	Irvine, CA 92618				uired:							EPA	oy EF	EPA	EPA	Meta	ant C	Asbestos by PLM	EPA	EPA	TPH-g,d,o by		
700000000000000000000000000000000000000	(949) 753-7070 Fax:				BY: EAC	/		-1-000gross		I Susancia		βρ	enic l	s by	s by	22 1	avale	estos	s by	s by	-g,d,	24 Hour:	
2555 S1260 ZENGESSEX	r Sample IDs			o. of ainers	Sample D	ate	Sample Time	Sam Mat		Cont	ainer Type	Lead	Arse	OCP	PCB	ijij.	Нех	Asb	PAH	000	TPH	REMARKS / I	NSTRUCTIONS
	9-5		1		2/20/2	3	1103	SS	,	900	e jar											Hold	
	8-0.5			ű.	1		1158					X	X										
B2'	8-2.5				il in the second		1203															Hold	
	> - 5			Milosottona			1204															Hold	
B2	7-0.5			-	and the second		1219					X	Z										- Marian
	1-2.5				i i i		1221						~~					<u> </u>	-		1	1-101/	
	7-5			-			1223													-	-	100	
133				-			1252			10E.	c/ OBAS			V							1	1100	
17 3	2 · 2 · 5 3 2 · 5	7.17 BOOK O. H.		5	1		1256				erons boas	<u> </u>		\Longrightarrow							H		
	3 2 am 10			wy			1304				jar	-					a.					Hold	
B2	3-2.5			eme C			1339				41095				,	X						11010	
7.00	53 - 5			5			1342	and the same of th			1.			Ŕ		\triangleright				\Rightarrow			
				and the			1356											<u> </u>	_		\leftarrow	11.11	
B	33-10 34-2.5	······	and the same	5	L		1419	1		902:	jay	-		\times								Hold	
No. of Sar	mnles: [4] Meth	od of Shipment:	Haa		delire	1000	·				rvative:	1	= Ice	2	= HC	I 3	= HN		4 -	H ₂ S(<u>4 ></u>	5 = NaOH	6 = Other
Relinquish	hed By:	Date: 2/20	1/2	2	Received	By:	£			11050	Date		- 100		- 110	ľ	nple I			11230	J ₄		
		Time: (61)	e f Gar	>							Time						iipic i	viacii	Λ.			DW - Drinkin	g Water
Company:	: Ninyo! Moore	, A(0		Company:						11111	٠.				G	W - 6	roun	dwat	er		AQ - Aqueou	S
Relinquish	hed By:	Date:			Received I	Зу:					Date	2;				W	/W - '	Wast	ewate	er		SS - Soil / Sol	id
Company:	:	Time:			Company:						Time	e:				S)	W - S1	torm	water			OT - Other	
Relinquish	ned By:	Date:			Received F	or (DCA By:					e: 2-		-23	3	San	nple I	ntegr	ity:				124,56
Company:	:	Time:			Company:						Time	e: /6	16			Inta	ect:			On I	ce:(Y	4.0 to	1243 C

Sample Receipt Report

	~		1		
Laboratory Reference	ENAM 27694	***************************************		Logged in by	HC
Received:	02/20/23 16	5:16	Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Deliver	,	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler		Project Name:	LAUSD 49th Street	t PEA
# Shipping Containers:			Project #:	211936010	
Sample Quantity 42 Soil					
Chain of Custody			Complete 🗸	Incomplete	None 🗌
Samples On Ice	÷		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)	4	Thermomete	er ID: IR#3	Adjusted Temp.:	4+0=4
Shipping Intact			Yes 🗸	N/A 🗌	No 🗌
Shipping Custody Sea	als Intact		Yes 🗌	N/A 🗸	No 🗌
Samples Intact			Yes 🗸		No 🗌
Sample Custody Seal	s Intact		Yes 🗌	N/A 🗹	No 🗌
Custody Seals Signed	d & Dated		Yes 🗌	N/A 🗹	No 🗌
Proper Test Container	rs		Yes 🗸		No 🗌
Proper Test Preserva	tions		Yes 🗸		No 🗌
Samples Within Hold	Times		Yes 🗸		No 🗌
VOAs Have Zero Hea	dspace		Yes 🗌	N/A 🗸	No 🗌
Sample Labels			Complete 🗸	Incomplete	None 🗌
Sample Information M	latches COC		Yes 🗸	N/A	No 🗌
Notes					
			•		

Ву

Client Notified



LA Testing Order: 332305791 CustomerID: 32ORAN77 CustomerPO: 27694B

ProjectID:

Attn: Mark Noorani
Orange Coast Analytical, Inc.
3002 Dow Avenue
Suite 532
Tustin, CA 92780

Phone: (714) 832-0064 Fax: (714) 832-0067 Received: 3/30/2023 10:35 AM

Analysis Date: 4/6/2023 Collected: 2/20/2023

Project: 211936010

Test Report: Asbestos Analysis via Polarized Light Microscopy, Qualitative

Sample	Description	Appearance	Result	Notes	
B21-0.5 332305791-0001		Brown/Gray/Tan Non-Fibrous Heterogeneous	None Detected		
B19-0.5 332305791-0002		Brown/Gray/Tan Non-Fibrous Heterogeneous	None Detected		
B23-0.5 332305791-0003		Brown/Tan/Black Non-Fibrous Heterogeneous	None Detected		
B24-0.5 332305791-0004		Brown/Gray/Black Non-Fibrous Heterogeneous	None Detected		
B28-0.5 332305791-0005		Brown Non-Fibrous Homogeneous	None Detected		
B27-0.5 332305791-0006		Brown Non-Fibrous Homogeneous	None Detected		

Analyst(s)	
Alexis Rodriguez (4)	

Tony Salgado (2)

Michael Chapman, Laboratory Manager or other approved signatory

LA Testing maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by LA Testing, LA Testing bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. LA Testing suggests that samples reported as none detected undergo additional analysis via TEM to avoid the possibility of false negatives.

Samples analyzed by LA Testing Huntington Beach, CA

Initial report from 04/06/2023 09:25:43

Test Report PLMQualw/Types-7.21.0 Printed: 4/6/2023 9:25:43 AM

OrderID: 332305791



Asbestos Chain of Custody LA Testing Order Number (lab use only): #3 3 2 3 0 5 7 9 1

LA TESTING 5431 INDUSTRIAL DRIVE HUNTINGTON BEACH, CA 92649

> PHONE: (714)828-4999 FAX: (714)761-2713

								(114)	01-2710
Company Name : Or	range Coast	Analytical, Inc.	LA Te	sting C	Customer ID):			
Street: 3002 Dow A	Ave. #532		City:	Tustin			State or Pr	ovince:	CA
Zip/Postal Code: 927	'80	Country: USA	-		714832006		Fax #:		
	Mark Noorani				ide Results		ax Em	nail	
	alab@sbcgloba	l.net/markn@ocalab.com			der Numbe				
	1936010				roject ID (ii		only):		
State or Province Col	lected: CA				Commercial			tial/Tax	Exempt
LAT Bill to: Sa	me Different	- If bill to is different note instruc	ctions in co	omment.	Third party b	illing require	s written auth	orization	
		Turnaround Time (TA	AT) Optio	ns Plea	ase Check				
3 Hr ¹ 4-4.5H	Only		Hr ²		☐ 72 Hr		toward .	Week	2 Wee
² 32 Hour TAT available for se	plies for 3 Hour TEM elect tests only; samp	AHERA or EPA Level II TAT – you w les must be submitted by 11:30 am.	vill be asked	to sign a	n authorization i	form. TEM Aii	3-6 Hour, plea	ise call ah	ead to schedule
PCM - Air		TEM - Air1			TEM- Sett	led Dust			
☐ NIOSH 7400		☐ AHERA 40 CFR, Part	763		☐ Microva	ac - ASTM	5755		
w/ OSHA 8hr. TWA	4	☐ NIOSH 7402			☐ Wipe -	ASTM D64	80		
PLM - Bulk (reporting	(limit)	☐ EPA Level II			☐ Carpet	Sonication	(EPA 600/J	-93/167)
■ PLM EPA 600/R-93	3/116 (<1%)	☐ ISO 10312			Soil - Roo	k - Vermi	ulite (repo	rting lin	nit)
☐ PLM EPA NOB (<1	%)	TEM - Bulk			☐ PLM EF	PA 600/R-9	3/116 with r	milling p	rep (<0.25%)
Point Count		☐ TEM EPA NOB						-	rep (<0.1%)*
□ 400 (<0.25%) □ 10		NYS NOB 198.4 (non-f			1 Table 1 Tabl		a Filtration I		
Point Count w/Gravime □ 400 (<0.25%) □ 10		TEM EPA 600/R-93/11 prep (<0.1%)*	6 with mil	lling			a Drop Mou		– PLM/TEM
☐ NYS 198.1 (friable		TEM - Water: EPA 100.2	-				ng limits avai		
☐ NYS 198.6 NOB (n		Fibers >10µm Waste	☐ Drin	king		(please s		unbic on i	cquesi
NYS 198.8 SOF-V		All Fiber Sizes Waste	☐ Drin		-				
☐ NIOSH 9002 (<1%)	All Fiber Sizes Waste		King					
Stop At First Posit	tive (clearly ider	ntify homogenous areas be	low)	Filter	Pore Size (A	Air Sample	s): 🗆 0.8	um [0.45µm
Sampler's Name:			Sar	mpler's	Signature:				
Sample #		Sample Description/	Location				Area or nous Area		ate/Time Sampled
	B21-0.5							2/20/	23 @ 0803
	B19-0.5							2/20/	23 @ 0820
	B23-0.5							2/20/	23 @ 0842
	B24-0.5							2/20/	23 @ 0900
	B28-0.5							2/20/	23 @ 1158
Client Sample # (s):	11				•	Total # of	Samples:6		
Relinquished by (Clie	ent):	OCACA Dat	te: 3/2	9/2	3		Time		60
Received by (Lab): (mathen Ja	inter ((ourir) & Dat	te: 3/3	30/2	3		Time	: (0:	35a
Comments/Special In	structions:			,					
PLM QUALITATI	VE								

Controlled Document - COC-04 Asbestos LA Testing R4

LA Testing's Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to LA Testing Inc. constitutes acceptance and acknowledgment of all terms and conditions.

OrderID: 332305791



Asbestos Chain of Custody LA Testing Order Number (Lab Use Only):

LA TESTING 5431 INDUSTRIAL DRIVE HUNTINGTON BEACH, CA 92649

> PHONE: (714)828-4999 FAX: (714)761-2713

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
	B27-0.5		2/20/23 @ 1219
-			
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	<u></u>		•
_		·	·
	<u>'</u>		
•		 	
*Comments/Special Ins	tructions:		
PLM QUALITATIV			
			٠
	? ?		

Page 2 of 2 pages

2

Controlled Document -- COC-04 Asbestos LA Testing R4

LA Testing's Laboratory Terms and Conditions are incorporated into this chain of custody by reference in their entirety. Submission of samples to LA Testing Inc. constitutes acceptance and acknowledgment of all terms and conditions.

Orange Coast Analytical, Inc. 3002 Dow, Suite 532, Tustin, CA 92780 (714)

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576
Expiration Date: 2023
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27815A

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/13/2023

Date Reported: 4/21/2023

Chain of Custody Received:

✓

Analytical Method: 8015B, 6010B, 1311/6010B,

Mark Noorani, Laboratory Director

Lab Reference # NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference # NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B45-0.5	27815-001	4/3/2023	4/3/2023	Soil
B45-2.5	27815-002	4/3/2023	4/3/2023	Soil
B4-E2-0.5	27815-012	4/3/2023	4/3/2023	Soil
B4-E-2.5	27815-016	4/3/2023	4/3/2023	Soil
B4-W-2.5	27815-019	4/3/2023	4/3/2023	Soil
B4-W2-0.5	27815-021	4/3/2023	4/3/2023	Soil
B4-5	27815-033	4/3/2023	4/3/2023	Soil
B42A-0.5	27815-038	4/3/2023	4/3/2023	Soil
B42A-2.5	27815-039	4/3/2023	4/3/2023	Soil

Lab Reference # NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample		Matrix		
B45-0.5			27815-001	4/3/2023 16:47	4/3/202	23 8:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u> <u>[</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	TCLP Lead	6010B	0.11	mg/l (04/19/23 10:35	04/20/23 10:55		1	
B45-2.5			27815-002	4/3/2023 16:47	4/3/202	23 8:05	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	ate Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	2.5	mg/kg (04/18/23 10:30	04/18/23 16:14		1	
B4-E2-0.5			27815-012	4/3/2023 16:47	4/3/202	23 10:55	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u> <u>C</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	46	mg/kg (04/18/23 10:30	04/18/23 15:50		1	
B4-E-2.5			27815-016	4/3/2023 16:47	4/3/202	23 11:05	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u> <u>[</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.1	mg/kg (04/18/23 10:30	04/18/23 15:56		1	
B4-W-2.5			27815-019	4/3/2023 16:47	4/3/202	23 11:14	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u> <u>C</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	130	mg/kg (04/18/23 10:30	04/18/23 16:06		1	
B4-W2-0.5			27815-021	4/3/2023 16:47	4/3/202	23 11:26	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u> <u> </u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	180	mg/kg (04/18/23 10:30	04/18/23 16:08		1	

Lab Reference # NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B4-5			27815-033	4/3/2023 16:4	47 4/3/20	23 12:35	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.9	mg/kg	04/18/23 10:30	04/18/23 16:10		1	
B42A-2.5			27815-039	4/3/2023 16:4	47 4/3/20	23 13:46	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.3	mg/kg	04/18/23 10:30	04/18/23 16:12		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBHV0418231	Arsenic	6010B	<2.0	mg/kg	04/18/23 10:30	04/18/23 15:36		1	
MBHV0418231	Lead	6010B	<0.80	mg/kg	04/18/23 10:30	04/18/23 15:36		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0419232	TCLP Lead	6010B	<0.080	mg/l	04/19/23 10:35	04/20/23 10:35		1	
B45-0.5			27815-001	4/3/2023 16:4	47 4/3/20	23 8:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Lead	6010B	4.7	mg/L	04/17/23 08:30	04/18/23 14:40		1	
B42A-0.5			27815-038	4/3/2023 16:4	47 4/3/20	23 13:44	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Arsenic	6010B	2.4	mg/L	04/17/23 08:30	04/18/23 14:43		1	

Lab Reference # NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sampled	Matrix		
Method Blank	k					Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0417231	STLC Arsenic	6010B	<0.20	mg/L	04/17/23 08:30 04/18/23 16:16		1	
MBIR0417231	STLC Lead	6010B	<0.20	mg/L	04/17/23 08:30 04/18/23 16:16		1	

QA/QC Report for Metals

Reference #: NAM 27815A Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/6010B

Laboratory Sample #: 27815-012 Date of Extraction: 04/18/23 10:30

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/18/23 15:44	04/18/23 15:47	46.0	20.0	64.3	65.2	92	96	1	75-125	20	
Lead	04/18/23 15:44	04/18/23 15:47	3.90	20.0	18.5	19.0	73	75	3	75-125	20	M2,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Laboratory Sample #: HV0418231 Date of Extraction: 04/18/23 10:30

1311/6010B

Laboratory Cample #. 1170410201 Date of Extraction					uon. o	1/10/20	10.00					
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/18/23 15:39	04/18/23 15:42		20.0	18.3	18.2	91	91	1	80-120	20	
Lead	04/18/23 15:39	04/18/23 15:42		20.0	18.2	18.3	91	91	1	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/6010B

Laboratory Sample #: 27827-001 Date of Extraction: 04/19/23 10:35 MS Date MSD Date SPC % ACP ACP % Analyte of Analysis of Analysis R1 CONC MS MSD MS MSD RPD %MS RPD Qualifiers TCLP Lead 04/20/23 10:43 04/20/23 10:46 0.587 0.19 0.400 0.569 99 95 3 75-125 20

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Laboratory Sample #: |R0419232 | Date of Extraction: 04/19/23 10:35

1311/6010B

,		_	 								
Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
TCLP Lead	04/20/23 10:37	04/20/23 10:40	 0.400	0.387	0.379	97	95	2	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/ STLC CCR

Laboratory Sample #: 27844-001 Date of Extraction: 04/17/23 08:30

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
STLC Arsenic	04/18/23 16:22	04/18/23 16:24	0.00	1.00	1.01	1.01	101	101	0	75-125	20	
STLC Lead	04/18/23 16:22	04/18/23 16:24	0.00	1.00	1.01	0.990	101	99	2	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

1311/ STLC CCR

LCS Date LCSD Date SPC ACP % **ACP** Analyte of Analysis of Analysis CONC LCS **LCSD LCS** LCSD **RPD** %LCS **RPD** Qualifiers STLC Arsenic 04/18/23 16:18 04/18/23 16:20 1.00 0.924 0.952 92 95 3 80-120 20 STLC Lead 04/18/23 16:18 04/18/23 16:20 1.00 0.829 0.861 83 86 4 80-120 20

Date of Extraction: 04/17/23 08:30

Laboratory Sample #: IR0417231

Data Qualifier Definitions

Qualifier

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable. 27815-012 6010B Lead MS



Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100

%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100

RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2

ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.

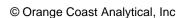
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected



Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27827A

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/18/2023

Date Reported: 4/24/2023

Chain of Custody Received: <a>

Analytical Method: 6010B, 1311/6010B,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27827A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at $^{\circ}$ C, on ice. 2 coolers at 3 and 1 $^{\circ}$ C IR#3 correction =+0 $^{\circ}$ C

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27827A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B34-2.5	27827-001	4/5/2023	4/5/2023	Soil

Lab Reference #: NAM 27827A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B34-2.5			27827-001	4/5/2023 17:5	51 4/5/20	23 8:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	TCLP Lead	6010B	0.19	mg/l	04/19/23 10:35	04/20/23 10:49		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0419232	TCLP Lead	6010B	<0.080	mg/l	04/19/23 10:35	04/20/23 10:35		1	
B34-2.5			27827-001	4/5/2023 17:5	51 4/5/202	23 8:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Lead	6010B	11	mg/L	04/20/23 17:00	04/24/23 14:19		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0420234	STLC Lead	6010B	<0.20	mg/L	04/20/23 17:00	04/24/23 14:06		1	

04/24/23

QA/QC Report for Metals

Reference #: NAM 27827A

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/6010B

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers	
TCLP Lead	04/20/23 10:43	04/20/23 10:46	0.19	0.400	0.587	0.569	99	95	3	75-125	20		

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: IR0419232 Date of Extraction: 04/19/23 10:35

1311/6010B

Laboratory Carr	ipic #. 1110-11020	_	Date									
Analyte	Analyte			SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
TCLP Lead	04/20/23 10:37	04/20/23 10:40		0.400	0.387	0.379	97	95	2	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/ STLC CCR

Laboratory Sar	nple #: 27827-00	1	Date of	of Extrac	tion: 0	4/20/23 1	7:00					
Analyte	MS Date Analyte of Analysis		R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
STLC Lead	04/24/23 14:14	04/24/23 14:17	11.0	1.00	11.3	11.7	30	70	3	75-125	20	M3,

1311/ STLC CCR

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
STLC Lead	04/24/23 14:09	04/24/23 14:11	 1.00	0.889	0.898	89	90	1	80-120	20	

Data Qualifier Definitions

Qualifier

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

27827-001

STLC CCR

STLC Lead

MS/MSD

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

7 of 7

see attached explanation.

ND Analyte Not Detected

Analysis Request & (

n of Custody Record



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Lab Job No.:		F	6		-
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Page:	of	~

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Tustin, CA 9	2780 32-0064 Fax: (714) 832-0067		Phoenix, AZ 8	35040 6-0960 Fax: (480	1 726 0070											REC	QUESTED	
											∢ .						ROUND-TIME	
CUSTOMER INFOR	MATION			DJECT INFORMA							10B/7471. EPA 7199					Standard:	X	
Company: Ninyo & Moore Send Report To: Dennis Fee		Project Na		JSD 49th Street	PEA		-				10B/ EPA				_			
Email: dfee@ninyoandmoore.co	nm	Project Nu	ımber: 211	936010			┨	<u>в</u>			A 603 m bv		Σ		015E	72 Hour	*	
Address: 475 Goddard	2111		City / State):	Los Angeles, (- ^		199	6010	81A	32	oy EPA 	_	70-SI	30B	PA 8			
Irvine, CA 92618		EDD Regu		LOS Aligeles, C	JA		A 60	EPA	A 80	A 80	tals 	y PLN	A 82	A 82	by E	48 Hour	:	
Phone: (949) 753-7070 Fax	« :	Sampled E	A . x	1 Cheal	skylo	w Lee	y EP	ic by	by EP	oy EP	2 Me alent	os p	3y EP	oy EP	d,mc	2411		
Customer Sample IDs		No. of Containers	Sample Date	Sample Time	Sample Matrix	Container Type	Lead by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by EPA	Asbestos by PLM	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,mo by EPA 8015B	24 Hour		
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Company:			Company:							SW - Stormwater						OT - Other	2c0014	v<
Relinquished By:	Date: 4/5	/23	Received For C	СА Ву:	The same of the sa) Date	: <i>U</i>	19	12	3	Sample	Integr	ity:/	/		(a	3110	. Y
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Company: Ningo & moore	Company: O CACA						Intact: On Ice: (Yes)						s∕No @	10°C				

Analysis Request & (

n of Custody Record

Lab Job No.: 27827

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Page:	2	

of 3

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

Tustin, CA 92780

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4620 East Elwood Street, Suite 4

Phoenix, AZ 85040

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ANALY	SIS REQUES	T / PRESER\	/ATION	
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	4			TURN-AROUND-TI

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CUSTOMER INFOR	MATION		PRC	DJECT INFORMA	TION						Title 22 Metals by EPA 6010B/7471A	7199					Standard:	Х
Company: Ninyo & Moore		Project Na	ame: LAU	SD 49th Street	PEA						7/80	PA 7						
Send Report To: Dennis Fee		Project Nu	umber: 211	936010							601(by E				8015B	72 Hour:	
Email: <u>dfee@ninyoandmoore.co</u>	<u>om</u>	PO #:]	10B	∢		EPA	ium		-SIM	В	٦ 80:		
Address: 475 Goddard		Address (0	City / State):	Los Angeles, C	Ά		by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	3082	ls by	Hexavalent Chromium by EPA 7199	Σ	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,mo by EPA	48 Hour:	
Irvine, CA 92618		EDD Requ	ired:				PA (y EP	EPA	PA 8	leta	nt Cl	by P	PA 8	EPA 8	no b		
Phone: (949) 753-7070 Fax	Κ:		By: Alleen	. Chea/si		Lee	by	nic b	s by	by E	22 N	ıvale	stos	by E	by E	g,d,r	24 Hour:	
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B37-10 ,				1344	SPECION SPECIA					X	X				X	X		
B37-15		V	erele da alpanjanjan	1346		902 Jar / 45/045				X	X				X	X		
836-0.5		6	No.	1420		410AC				1	X	\times	9	X,	\overrightarrow{X}	\overrightarrow{X}		
B36-2.5		V		1423	1	V				Ì	Xľ			X	X	X		
No. of Samples:	Method of Shipment:		*			Preservative:	1	= Ice	2 :	= HCl	3 =	HNC) ₃	4 = 1	H₂SO,	1	5 = NaOH	6 = Other
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	Time:					Time	<u>:</u> :	•								;	SS - Soil / Soli	d
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Analysis Request & (

n of Custody Record



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Page: 3

	3002 Dow Avenue, Suite	532				ood Street, Su	ıite 4			A	NALY!	SIS RE	QUES	iT/PI	RESEF	ITAV	ON			
	Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067			nix, AZ 8 (480) 736	35040 6-0960 Fax: (480	0) 736-0970													JESTED DUND-TIME
CU:	STOMER INFORMATION				PRO	DJECT INFORM	ATION	100					471A	199					Standard:	X
Company: Ninyo 8	& Moore		Project N	Jame:	LAU	JSD 49th Stree	t PEA						6010B/7471A	EPA 7199						
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f	oandmoore.com		PO #:	·						10B	∢		EPA	ium		-SIM	8	A 801		
Address: 475 Go			Address ((City / Sta	ite):	Los Angeles,	CA		0100	A 60	3081	3082	ls by	יייסיר	Σ	3270	3260	y EP/	48 Hour:	
Irvine,	CA 92618		EDD Requ	uired:					by EPA 6010B	Arsenic by EPA 6010B	EPA	PA 8	1eta	nt Ci	by P	PA 8	PA 8	no b		
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No. of Samples:	Method of	Shipment:		<u> </u>				Preservative:	1	= lce		= HCl		L						6 0 1
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Sample Receipt Report

Laboratory Reference	CENAM 27827		Logged in by	MM			
Received:	04/05/23 17:51	Company Name:	Ninyo & Moore				
Method of Shipment:	Hand Delivered	Project Manager:	Mr. Dennis Fee				
Shipping Container: Cooler # Shipping Containers: 2		Project Name:	LAUSD 49th Street PEA				
		Project #:	211936010				
Sample Quantity 35 Soil							
Chain of Custody		Complete 🗹	Incomplete	None			
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌			
Observed Temp. (°C)): Th	ermometer ID:	Adjusted Temp.:				
Shipping Intact		Yes 🗌	N/A 🗸	No 🗌			
Shipping Custody Se	als Intact	Yes 🗌	N/A 🗸	No 🗌			
Samples Intact		Yes 🗸		No 🗌			
Sample Custody Sea	als Intact	Yes	N/A 🗸	No 🗌			
Custody Seals Signe	d & Dated	Yes 🗌	N/A 🔽	No 🗀			
Proper Test Containe	ers	Yes 🗸		No 🗌			
Proper Test Preserva	ations	Yes 🗸		No 🗌			
Samples Within Hold	Times	Yes 🗸		No 🗌			
VOAs Have Zero He	adspace	Yes	N/A 🗸	No 🗌			
Sample Labels		Complete 🗸	Incomplete	None			
Sample Information I	Matches COC	Yes 🗸	N/A 🗌	No 🗌			
Notes							
2 coolers at 3 a	nd 1 °C IR#3 co	orrection =+0 °C					
				·			

Client Notified

On

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2025 Los Angeles County Sanitation District Lab ID# 10206

> Laboratory Director's Name: Mark Noorani

> > Client: Ninyo & Moore

Laboratory Reference: NAM 27693C

Project Name: LAUSD 49th Street PEA

Project Number: 2119366010

Date Received: 5/1/2023

Date Reported: 5/3/2023

Chain of Custody Received: 🔽

Analytical Method: 6010B,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27693C Project Name: LAUSD 49th Street PEA

Project #: 2119366010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27693C Project Name: LAUSD 49th Street PEA

Project #: 2119366010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B41-2.5	27693-014	2/20/2023	2/18/2023	Soil
B40-2.5	27693-016	2/20/2023	2/18/2023	Soil

Lab Reference #: NAM 27693C Project Name: LAUSD 49th Street PEA

Project #: 2119366010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample		Matrix		
B41-2.5			27693-014	2/20/2023 16:1	1 2/18/20	23 10:11	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.2	mg/kg	05/01/23 15:35	05/02/23 16:29		1	
B40-2.5			27693-016	2/20/2023 16:1	1 2/18/20	23 10:39	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	<2.0	mg/kg	05/01/23 15:35	05/02/23 16:20		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBHV0501231	Arsenic	6010B	<2.0	mg/kg	05/01/23 16:30	05/02/23 12:10		1	

QA/QC Report for Metals

Reference #: NAM 27693C Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B

Laboratory Sample #: AZ13973-003 Date of	of Extraction:	05/01/23 16:30
--	----------------	----------------

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	05/02/23 12:20	05/02/23 12:23	4.70	20.0	22.3	23.1	88	92	4	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: HV0501231 Date of Extraction: 05/01/23 16:30

6010B

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	05/02/23 12:14	05/02/23 12:17	 20.0	18.2	17.3	91	86	5	80-120	20	

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

6 of 6

see attached explanation.

ND Analyte Not Detected

Analysis Request & C of Custody Record Lab Job No .: ORANGE COAST ANALYTICAL, INC. www.ocalab.com 3002 Dow Avenue, Suite 532 ANALYSIS REQUEST / PRESERVATION 4620 East Elwood Street, Suite 4 Tustin, CA 92780 Phoenix, AZ 85040 REQUESTED Phone: (714) 832-0064 Fax: (714) 832-0067 Phone: (480) 736-0960 Fax: (480) 736-0970 TURN-AROUND-TIME Title 22 Metals by EPA 6010B/7471A CUSTOMER INFORMATION PROJECT INFORMATION Hexavalent Chromium by EPA 7199 Standard: X Ninyo & Moore LAUSD 49th Street PEA Project Name: Company: Send Report To: Dennis Fee Project Number: 211936010 72 Hour: TPH-g,d,o by EPA 8015B PAHS by EPA 8270-SIM Arsenic by EPA 6010B dfee@ninyoandmoore.com PO #: OCs by EPA 8260B Address: 475 Goddard Address (City / State): Los Angeles, CA 48 Hour: Irvine, CA 92618 EDD Required: EAC/AC OCPs by I Sampled By: Fax: 24 Hour: Sample Time Container Type Sample Date REMARKS / INSTRUCTIONS 0850 2/18/23 B2-0.5 90zjar 1102 0854 B2-2.5

Email: Phone: (949) 753-7070 Customer Sample IDs CI=compositegroup IU CZ=composite and 2 U CI 0902 R1-2.5 0904 0923 0925 B3-2.5 B4-0.5 0931 **c3** C3 = composite andp 3 V CH= composite group 4 B4-2.5 0932 R22-0.5 0938 B22-2.5 0940 HOLD B22-5 0942 HOLD 0958 B42-2.5 5 B42-5 HOLD 1000 R41-2.5 1011 No. of Samples: Method of Shipment: Preservative: 1 = lce 2 = HCl $3 = HNO_3$ 4 = H2SO4 5 = NaOH6 = Other Relinquished By; Received By: Date: Sample Matrix: DW - Drinking Water Time: Time: GW - Groundwater Company: Company: AQ - Aqueous Relinquished By: Received By: WW - Wastewater Date: Date: SS - Soil / Solid Time: Time: SW - Stormwater Company: Company: OT - Other Received For OCA By: Relinquished By: Date: 2-26-23 Date: Sample Integrity: 20+022.16 Time: 1611 Time: Company: Company: OCA CM

By signing above, client acknowledges responsibility for payment of all services requested on this chain of custody form and any additional services provided in support of this project. Payment is due within 30 days of invoice date unless otherwise agreed upon, in writing, by Orange Coast Analytical, Inc. All samples remain the property of the client. A disposal fee may be imposed if client fails to pickup samples upon completion of all analyses.

Analysis Request & C

4620 East Elwood Street, Suite 4

of Custody Record



Company:

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

www.ocalab.com

ab Job No.:	7	1	100	13	
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ANALYSIS REQUEST / PRESERVATION

Page: 2 of

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Phone: (714) 832-0064 Fax: (714)	832-0067	Phone: (480) 736-		0) 736-0970													REQUI	
CUSTOMER INFORMATION		PRO.	JECT INFORM	ATION							6010B/7471A	199					Standard:	Х
Company: Ninyo & Moore	Project N	ame: LAUS	SD 49th Stree	t PEA							7/80	Hexavalent Chromium by EPA 7199						
end Report To: Dennis Fee	Project N	umber: 2119	36010									by E		_		8	72 Hour:	
mail: <u>dfee@ninyoandmoore.com</u>	PO #:							108	⋖		EPA	nium		SIZ-	98	8015		
ddress: 475 Goddard	Address (City / State):	Los Angeles,	CA			6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by EPA	hron	ΓM	PAHS by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	48 Hour:	
Irvine, CA 92618	EDD Requ						EPA	Jy EF	EPA	EPA	Vieta	nt C	Asbestos by PLM	EPA	EPA	o by		
hone: (949) 753-7070 Fax:	Sampled	BY: EACH	4C				λq	nict	s by	s by	22 1	avale	estos	s by	s by	, p, g	24 Hour:	
ustomer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix	Conta	ner Type	Lead	Arse	OCP	PCB	Title	Hex	Asbe	PAH	VOC	TP.	REMARKS / IN	STRUCTIONS
B41-5	5	2/18/23	1014	Soil	907	jar		1.7				1					HOLD	
840-2.5	4	1	1039		T .	1,							= =		X	X		
85-0.5	11		1102		902	ijar	X	X	C3		X	V	V.	X				
B5-2.5	li		1104	-		,			CH									
B6-0.5			1111				X	X	C3									
86-2.5	12/		1113		1	/			C4									
840-5	5		1126		902	jav				C.							HOLD	
88-0.5	l t		1248		_	zjav	X	X	c5		X	X	X	X			C5=COMP	ositean
88-2.5	1		1250			1			Clo								Clo=com	
87-0.5			1254				X	X	C5									-
87-2-5			1255						C6									
B12-0.5			1302				X	X	CT		X	X	X	X			C7=comp	ositequa
B12-2.5		1= CII	1304						CB								comi	
811-0.5	V	1/	1307			1/	X	X	c7									
o. of Samples: 14 Method of Shi	pment:				Preser	vative:	1	= lce	2	= HCl	3	= HN	03	4=	H ₂ SC)4	5 = NaOH	6 = Other
Chille Time	= 2/24/23	Received By:				Date						nple N W - G		x: dwate	er		DW - Drinking	
ompany: N Ž M		Company: Received By:								-							AQ - Aqueous	
Date		neceived by.				Date	e:				W	W-V	Waste	ewate	er		SS - Soil / Solid	i
ompany:	2:	Company:	mpany:		Tir		e:				SV	N - St	ormv	water			OT - Other	3
elinquished By: Date	1,	Received For O	CA By:			Date	e: 2-	20	-23		Sam	nple I	ntegr	ity:			2.0+0:	2.5 %
Time	2:	11/21/4	-			Time	a. 11	211									- TA	

Company: OCA, LA

		Analysis Re	equest & C	1 01	Custody R	ecor	d									
■ ORANGE COAST ANALYTIC	CAL INC		TATIATIA.	ocalab.	com	Lab J	ob No.:	-	271	2013	3		Pa	ge:	3 of	4
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Tustin, CA 92780		Phoenix, AZ 8		,,,,,			-	1								
Phone: (714) 832-0064 Fax: (714)	832-0067	Phone: (480) 736	6-0960 Fax: (48)	0) 736-0970											REQUESTI TURN-AROUNI	
CUSTOMER INFORMATION		PRO	DJECT INFORM	ATION					71A	7199						X
Company: Ninyo & Moore	Project	Name: LAU	ISD 49th Stree	t PEA		1			6010B/7471A	PA 7					Standards	
Send Report To: Dennis Fee	Project	Number: 211	936010							by E		-		98	72 Hour:	
Email: dfee@ninyoandmoore.com	PO #:					- B	0108	4	/ EPA	min		NIS-C)B	8015		
Address: 475 Goddard		s (City / State):	Los Angeles,	CA		60108	PA 60	808	als by	Chror	PLM	827	826	, EPA	48 Hour:	
Irvine, CA 92618		quired:	AC			/ EPA	by E	y EP/	Met	lent (yd sc	y EPA	y EPA	(d 0,		
Phone: (949) 753-7070 Fax: Customer Sample IDs	Sample No. of	Sample Date	Sample Time	Sample	Container Type	Lead by	Arsenic by EPA 6010B	OCFS by EPA 8081A	Title 22 Metals by EPA	Hexavalent Chromium by	Asbestos by PLM	PAHS by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	24 Hour:	_
B11-2.5	Containe	2/18/23	1309	Soil	902 jar		_	_	F	Ĭ	As	PA	>	ΤP	REMARKS / INSTRI	JCTIONS
89-0.5		41927	1320	2011	102300		XC	8								
89-2.5			1322	11				_			\triangle	\wedge				
B13-0.5		1	1336	+		X	XC		-		-				C9=compos	Jear
B13-2.5			1338				C	_	+			H			C10=compo	
814-0.5			1340	++		X	Xc	_	X	V					Clo-Comp	31120
B14-2.5			1342				$\overline{}$	10			\wedge	1				
B17-0.5			1351			V	X c	-							CIL=Compos	ilenu
B17-2.5			1353				a	_				H			C12=Compos	teav
815-0,5			1357			×	× c	_	X	V	V	X			CZ-COV-(pos	rieg.
815-2.5			1359			1	C	-			\sim				7	
B16-0.5			1409			X	Xc	-					1			
316-2.5			1410				C	-						П		-
B18-0.5	V		1412	V	1	X	Χc		X	X	X	X				
No. of Samples: 14 Method of Ship	ment:			-	Preservative:	1	= Ice	2 = H0		= HNO	0,	4=	H ₂ SO ₄		5 = NaOH 6 =	Other
Relinquished By: Date:	2/20/23	Received By:			Date					nple N			2002			
/ VI 1	-1001-)				Time										DW - Drinking Wa	iter
Company: NEM	16/1	Company:							G	W - G	roun	dwate	er		AQ - Aqueous	
Relinquished By: Date:		Received By:			Date	e:			V	VW - V	<i>N</i> aste	ewater	r		CC Coil / Calid	
Time					Time	e:			-						SS - Soil / Solid	
Company:		Company:							5	W - St	ormv	water			OT - Other	
Relinquished By: Date:		Received For C	DCA By:		Date	e: 2-	20-	23	San	nple Ir	ntegr	ity:			2.0+0=2	.,'4
Time		MINU P				e: /6								-	2.0+0=2 L/4 es) No @	3
Company:		Company: 00	A, LA						Inta	act:		(On Ice	Ye	es) No @	C

Company: OCA, LA

Analysis Request & C of Custody Record Lab Job No .: ORANGE COAST ANALYTICAL, INC. www.ocalab.com 3002 Dow Avenue, Suite 532 4620 East Elwood Street, Suite 4 ANALYSIS REQUEST / PRESERVATION Tustin, CA 92780 Phoenix, AZ 85040 REQUESTED Phone: (714) 832-0064 Fax: (714) 832-0067 Phone: (480) 736-0960 Fax: (480) 736-0970 TURN-AROUND-TIME Title 22 Metals by EPA 6010B/7471A CUSTOMER INFORMATION PROJECT INFORMATION Hexavalent Chromium by EPA 7199 Standard: Company: Ninvo & Moore Project Name: LAUSD 49th Street PEA Send Report To: Dennis Fee Project Number: 211936010 72 Hour: TPH-g,d,o by EPA 8015B PAHS by EPA 8270-SIM Arsenic by EPA 6010B dfee@ninyoandmoore.com Email: PO #: /OCs by EPA 8260B OCPs by EPA 8081A Asbestos by PLM Address: 475 Goddard Address (City / State): Los Angeles, CA 48 Hour: Irvine, CA 92618 EDD Required: EACLAC (949) 753-7070 Fax: Sampled By: 24 Hour: No. of Customer Sample IDs Sample Date Container Type Matrix REMARKS / INSTRUCTIONS B18-2.5 2/18/23 1414 Soil 902 jav R10-0.5 1420 B10-2.5 CB 1422 2/8/23 No. of Samples: 3 Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO₃ 4 = H2SO4 5 = NaOH6 = Other Relinquished By: Received By: Date: Sample Matrix: DW - Drinking Water Time: Time: GW - Groundwater Company: Company: AQ - Aqueous

Relinquished By: Received By: Date: WW - Wastewater Date: SS - Soil / Solid Time: Time: SW - Stormwater Company: Company: OT - Other Received For OCA By: Relinquished By: Date: 2-20-23 Date: Sample Integrity: 2.0+0-2.16 Time: /611 Time: Company: OCA, CA Company:

Sample Receipt Report

# Shipping Container: Cooler # Shipping Containers: Sample Quantity 57 Soil Chain of Custody Samples On Ice	Delivered	Company Name: Project Manager: Project Name: Project #: Complete Yes, Wet Yes, Wet Yes Yes Yes	Ninyo & Moore Mr. Dennis Fee LAUSD 49th Street P 211936010 Incomplete Yes, Blue Adjusted Temp.: N/A	None
Shipping Container: Cooler # Shipping Containers: Sample Quantity 57 Soil Chain of Custody Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact	1	Project Name: Project #: Complete Yes, Wet ID: IR#3 Yes	LAUSD 49th Street P 211936010 Incomplete Yes, Blue Adjusted Temp.:	None
# Shipping Containers: Sample Quantity 57 Soil Chain of Custody Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		Project #: Complete Yes, Wet ID: IR#3 Yes	Incomplete Yes, Blue Adjusted Temp.:	None
Sample Quantity 57 Soil Chain of Custody Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		Complete ✓ Yes, Wet ✓ rID: IR#3 Yes ✓	Incomplete Yes, Blue Adjusted Temp.:	No
Chain of Custody Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		Yes, Wet ☑ rID: IR#3 Yes ☑	Yes, Blue Adjusted Temp.:	No
Samples On Ice Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		Yes, Wet ☑ rID: IR#3 Yes ☑	Yes, Blue Adjusted Temp.:	No
Observed Temp. (°C): Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact		rID: IR#3 Yes ☑	Adjusted Temp.:	2+0=2
Shipping Intact Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact	2 Thermomete	Yes 🗸		
Shipping Custody Seals Intact Samples Intact Sample Custody Seals Intact			N/A	
Samples Intact Sample Custody Seals Intact		Yes		No 🗌
Sample Custody Seals Intact			N/A 🗸	No 🗌
		Yes 🗸		No 🗌
Custody Seals Signed & Dated		Yes 🗌	N/A 🗸	No 🗌
		Yes 🗌	N/A 🗸	No 🗌
Proper Test Containers		Yes 🗸		No 🗌
Proper Test Preservations		Yes 🗸		No 🗌
Samples Within Hold Times		Yes 🗸		No 🗌
VOAs Have Zero Headspace		Yes 🗌	N/A 🗸	No 🗌
Sample Labels		Complete 🗸	Incomplete	None 🗌
Sample Information Matches Co	oc	Yes 🗸	N/A	No 🗌
Notes				

Client Notified

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27814

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/3/2023

Date Reported: 4/5/2023

Chain of Custody Received: 🔽

Analytical Method: 6010B,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27814 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27814 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
S1	27814-001	4/3/2023	4/3/2023	Soil
S2	27814-002	4/3/2023	4/3/2023	Soil
S3	27814-003	4/3/2023	4/3/2023	Soil
S4	27814-004	4/3/2023	4/3/2023	Soil
S5	27814-005	4/3/2023	4/3/2023	Soil

Lab Reference #: NAM 27814 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	D		Lab Sample Number	Date Received	Date Sampl		Matrix		
S1			27814-001	4/3/2023 16:4	4/3/20	23 9:54	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.7	mg/kg	04/03/23 17:35	04/04/23 14:14		1	
S2			27814-002	4/3/2023 16:4	4/3/20	23 10:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	31	mg/kg	04/03/23 17:35	04/04/23 14:17		1	
S3			27814-003	4/3/2023 16:4	4/3/20	23 10:03	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	14	mg/kg	04/03/23 17:35	04/04/23 14:19		1	
S4			27814-004	4/3/2023 16:4	4/3/20	23 10:08	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	24	mg/kg	04/03/23 17:35	04/04/23 14:22		1	
S5			27814-005	4/3/2023 16:4	4/3/20	23 10:12	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	6.9	mg/kg	04/03/23 17:35	04/04/23 14:24		1	
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBHV0403231	Arsenic	6010B	<2.0	mg/kg	04/03/23 13:30	04/04/23 12:49		1	

QA/QC Report for Metals

Reference #: NAM 27814 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B

Laboratory Sample #: AZ13927-001 Date of Extraction: 04/03/23 13:30

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/04/23 13:00	04/04/23 13:03	0.00	20.0	19.1	18.7	96	94	2	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Laboratory Sample #: HV0403231 Date of Extraction: 04/03/23 13:30

6010B

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/04/23 12:53	04/04/23 12:56	 20.0	18.5	18.8	93	94	2	80-120	20	

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

6 of 6

see attached explanation.

ND Analyte Not Detected

ORANGE COAST ANALYTICAL, INC		Mary	sis ke	equest & U	ocalab.		τοαγ κ		ra Job No		<u> Z</u>	78	3/t	1		Pa	age:		of
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Company: Ninyo & Moore	Project Na	ame:	LAU	ISD 49th Street	PEA				623684			.0B/7	EPA 7					1	
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No. of Samples: 5 Method of Shipment: +	<u>dand</u>	DE	LIVE	.KED		Prese	ervative:	1	L = Ice	2	= HCl	1 3	= HNC	03	4 =	H ₂ SO ₄	4!	5 = NaOH	6 = Other
Relinquished By: Aileon Chea Date: 4/3/2 Time: 1503	1023	Receive	ed By: Char	ver/				e: 4/3 ie: 15		023	•		nple M					DW - Drinking	g Water
Company: Ningo & More	ļ	Compa	ıny: 🖊	Janya? M	loone	-	,	- , <u>-</u>	,,			G\	iW - Gi	round	dwate	<u>∍</u> r	i	AQ - Aqueous	iS
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Sample Receipt Report

Laboratory Reference	CENAM 27814		Logged in by	HC
Received:	04/03/23 16:47	Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delivered	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	Project Name:	LAUSD 49th Street	: PEA
# Shipping Containers:	1	Project #:	211936010	
Sample Quantity 5 Soil				
Chain of Custody		Complete 🗸	Incomplete	None
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)	: 3 Therm	ometer ID:	Adjusted Temp.:	3
Shipping Intact		Yes 🗸	N/A 🗌	No 🗌
Shipping Custody Sea	als Intact	Yes 🗌	N/A 🗹	No 🗌
Samples Intact		Yes 🗸		No 🗌
Sample Custody Sea	is Intact	Yes 🗌	N/A 🔽	No 🗌
Custody Seals Signed	d & Dated	Yes 🗌	N/A 🔽	No 🗌
Proper Test Containe	rs	Yes 🗸		No 🗌
Proper Test Preserva	tions	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace	Yes 🗌	N/A 🗹	No 🗌
Sample Labels		Complete 🗸	Incomplete	None 🗌
Sample Information N	Matches COC	Yes 🗸	N/A 🗌	No 🗌
Notes				
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Client Notified

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27815

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/3/2023

Date Reported: 4/11/2023

Chain of Custody Received: <a>

Analytical Method: 8015B, 8260B, 6010B, 7471A,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B45-0.5	27815-001	4/3/2023	4/3/2023	Soil
B45-2.5	27815-002	4/3/2023	4/3/2023	Soil
B45-5	27815-003	4/3/2023	4/3/2023	Soil
B45-10	27815-004	4/3/2023	4/3/2023	Soil
B45-15	27815-005	4/3/2023	4/3/2023	Soil
B20-W-0.5	27815-006	4/3/2023	4/3/2023	Soil
B20-W-2.5	27815-007	4/3/2023	4/3/2023	Soil
B20-E-0.5	27815-008	4/3/2023	4/3/2023	Soil
B20-E-2.5	27815-009	4/3/2023	4/3/2023	Soil
B21-W-0.5	27815-010	4/3/2023	4/3/2023	Soil
B21-W-2.5	27815-011	4/3/2023	4/3/2023	Soil
B4-E2-0.5	27815-012	4/3/2023	4/3/2023	Soil
B4-E2-2.5	27815-013	4/3/2023	4/3/2023	Soil
B4-E2-5	27815-014	4/3/2023	4/3/2023	Soil
B4-E-0.5	27815-015	4/3/2023	4/3/2023	Soil
B4-E-2.5	27815-016	4/3/2023	4/3/2023	Soil
B4-E-5	27815-017	4/3/2023	4/3/2023	Soil
B4-W-0.5	27815-018	4/3/2023	4/3/2023	Soil
B4-W-2.5	27815-019	4/3/2023	4/3/2023	Soil
B4-W-5	27815-020	4/3/2023	4/3/2023	Soil
B4-W2-0.5	27815-021	4/3/2023	4/3/2023	Soil
B4-W2-2.5	27815-022	4/3/2023	4/3/2023	Soil
B4-W2-5	27815-023	4/3/2023	4/3/2023	Soil
B4-N-0.5	27815-024	4/3/2023	4/3/2023	Soil
B4-N-2.5	27815-025	4/3/2023	4/3/2023	Soil
B4-N-5	27815-026	4/3/2023	4/3/2023	Soil
B4-N2-0.5	27815-027	4/3/2023	4/3/2023	Soil
B4-N2-2.5	27815-028	4/3/2023	4/3/2023	Soil
B4-N2-5	27815-029	4/3/2023	4/3/2023	Soil
B4A-0.5	27815-030	4/3/2023	4/3/2023	Soil
B4A-2.5	27815-031	4/3/2023	4/3/2023	Soil
B4A-5	27815-032	4/3/2023	4/3/2023	Soil
B4-5	27815-033	4/3/2023	4/3/2023	Soil
B4-7.5	27815-034	4/3/2023	4/3/2023	Soil
B2-N-0.5	27815-035	4/3/2023	4/3/2023	Soil
B2-N-2.5	27815-036	4/3/2023	4/3/2023	Soil
B2-N-5	27815-037	4/3/2023	4/3/2023	Soil
B42A-0.5	27815-038	4/3/2023	4/3/2023	Soil

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B42A-2.5	27815-039	4/3/2023	4/3/2023	Soil
B42A-5	27815-040	4/3/2023	4/3/2023	Soil
B44-0.5	27815-041	4/3/2023	4/3/2023	Soil
B44-2.5	27815-042	4/3/2023	4/3/2023	Soil
B44-5	27815-043	4/3/2023	4/3/2023	Soil
B14-E-0.5	27815-044	4/3/2023	4/3/2023	Soil
B14-E-2.5	27815-045	4/3/2023	4/3/2023	Soil
B14-S-0.5	27815-046	4/3/2023	4/3/2023	Soil
B14-S-2.5	27815-047	4/3/2023	4/3/2023	Soil

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Extractable Fuel Hydrocarbons (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B45-0.5	27815-001	4/3/2023	4/3/2023	4/6/2023	4/10/2023	Soil
		16:47	8:00	15:00	23:10	
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	490		Octa	cosane	191	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Acc	Recovery: 4	40-160 %	
B45-0.5	27815-001	4/3/2023 16:47	4/3/2023 8:00	4/6/2023 15:00	4/10/2023 23:10	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	1900		Octa	cosane	191	
Dilution Factor: 1 Data Qualifiers: S1,			* Acc	Recovery: 4	40-160 %	
B45-15	27815-005	4/3/2023 16:47	4/3/2023 8:35	4/6/2023 15:00	4/10/2023 23:54	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	<10		Octa	cosane	163	
Dilution Factor: 1 Data Qualifiers: S1,			* Acc	Recovery:	40-160 %	
B45-15	27815-005	4/3/2023	4/3/2023	4/6/2023	4/10/2023	Soil
		16:47	8:35	15:00	23:54	
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	<50		Octa	cosane	163	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Acc	Recovery: 4	40-160 %	
B44-0.5	27815-041	4/3/2023	4/3/2023	4/6/2023	4/11/2023	Soil
		16:47	14:16	15:00	0:38	
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	<10		Octa	cosane	125	
Dilution Factor: 1				Recovery:		
Data Qualifiers: None						

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Extractable Fuel Hydrocarbons (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B44-0.5	27815-041	4/3/2023 16:47	4/3/2023 14:16	4/6/2023 15:00	4/11/2023 0:38	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
MROs	<50		Octa	cosane	125	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
B44-2.5	27815-042	4/3/2023 16:47	4/3/2023 14:18	4/6/2023 15:00	4/11/2023 1:22	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	<10		Octa	cosane	130	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
B44-2.5	27815-042	4/3/2023 16:47	4/3/2023 14:18	4/6/2023 15:00	4/11/2023 1:22	Soil
ANALYTE	mg/kg		Surre	ogate:	% RC*	
MROs	<50		Octa	cosane	130	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
Method Blank	MBLY0406232			4/6/2023 15:00	4/10/2023 20:19	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
DROs	<10		Octa	cosane	108	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
Method Blank	MBLY0406232			4/6/2023 15:00	4/10/2023 20:19	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
MROs	<50		Octa	cosane	108	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B45-0.5	27815-001	4/3/2023 16:47	4/3/2023 8:00	4/5/2023 13:00	4/5/2023 15:53	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	0.67		α-α-ο	α-Trifluorotolu	ene 106	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B45-15	27815-005	4/3/2023 16:47	4/3/2023 8:35	4/5/2023 13:00	4/5/2023 16:13	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	0.67		α-α-α	α-Trifluorotolu	ene 70	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B44-0.5	27815-041	4/3/2023	4/3/2023	4/5/2023	4/5/2023	Soil
		16:47	14:16	13:00	16:33	
<u>ANALYTE</u>	<u>mg/kg</u>		Surro	ogate:	<u>% RC*</u>	
GROs ¹	0.71		α - α - α	α-Trifluorotolu	ene 80	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B44-2.5	27815-042	4/3/2023 16:47	4/3/2023 14:18	4/5/2023 13:00	4/5/2023 16:54	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	0.58		α-α-α	α-Trifluorotolu	ene 53	
Dilution Factor: 1 Data Qualifiers: None			* Acc	ceptable Reco	overy: 32-153 %	
Method Blank	MBLY0405231			4/5/2023 13:00	4/5/2023 13:38	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	ene 91	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

Lab Reference #: NAM 27815

Project Name: LAUSD 49th Street PEA

Project #: 211936010

		,	•	,		
Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B45-0.5	27815-00	1 4/3/2023	4/3/2023	4/3/2023	4/4/2023	Soil
		16:47	8:00	8:00	14:52	
ANALYTE	CAS#	<u>μg/kg</u>	ANALYTE		CAS#	<u>μg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzer	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	< 5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	< 5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroe	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	< 5.0	1,1,2-Trichloroe	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror	methane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichlorop	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:		65-130 %	Data Quali	ifiers: None		
Dibromofluoromethane: Toluene-d8:	86 87	65-130 % 58-130 %	Data Qual	ifiers: None		

Lab Reference #: NAM 27815

Project Name: LAUSD 49th Street PEA

Project #: 211936010

	Lab Sample	e Date	Date	Date	Date	
Client Sample ID	Number	Received	l Sampled	Extracted	Analyzed	Matrix
B45-15	27815-005	5 4/3/2023	4/3/2023	4/3/2023	4/4/2023	Soil
		16:47	8:35	8:35	15:13	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		<u>CAS #</u>	<u>μg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ther (MTBE)	1634-04-4	< 5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzer	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	< 5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	< 5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	oenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	oenzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroe	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	< 5.0	1,1,2-Trichloroe	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	e	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror	methane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichlorop	oropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	86	65-130 %	Data Qual	ifiers: None		
Toluene-d8:	84	58-130 %				
	88					

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

	3 0 141 11	e erganico ay		,		
Client Sample ID	Lab Sampl Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B44-0.5	27815-04	1 4/3/2023	4/3/2023	4/3/2023	4/4/2023	Soil
		16:47	14:16	14:16	15:33	
<u>ANALYTE</u>	CAS#	<u>μg/kg</u>	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	< 5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ther (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzer	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	oenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	oenzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroe	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroe	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror	methane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	oropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
·	10061-01-5	<2.5				
		ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	89	65-130 %		ifiers: None		
DIDIVITIONUOLONGINANE.	09	00-100 /6				
Toluene-d8:	88	58-130 %	Data Qual			

Lab Reference #: NAM 27815

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B44-2.5	27815-042	4/3/2023		4/3/2023	4/4/2023	Soil
		16:47	14:18	14:18	15:54	
<u>ANALYTE</u>	<u>CAS #</u>	<u>μg/kg</u>	<u>ANALYTE</u>		<u>CAS #</u>	<u>μg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle		10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	< 5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ther (MTBE)	1634-04-4	< 5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	< 5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe		127-18-4	<2.5
Chloromethane	74-87-3	< 5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	oenzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	< 5.0	1,1,2-Trichloro		79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene		79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror		75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro		96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	•	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl		108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	;	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5	,			
cis-1.2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
·	10061-01-5	<2.5				
• •		ceptable % RC	Dilution Fa	ctor: 1		
Dibromofluoromethane:	87	65-130 %		ifiers: None		
Toluene-d8:	85	58-130 %	<u>Dala Qual</u>	mora. None		
. 5.45110 40.	88	55 155 75				

Lab Reference #: NAM 27815

Project Name: LAUSD 49th Street PEA

Project #: 211936010

	Lab Cample	Date	Date	Date	Date	
Client Sample ID	Lab Sample Number	Received		Extracted	Analyzed	Matrix
Method Blank	MBHT040423	1		4/4/2023	4/4/2023	Soil
				9:30	14:31	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	<u>μg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichlo	propropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl ethe	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	er (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	diene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ne	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolue	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ther (MTBE)	1634-04-4	< 5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlor	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzer	ie	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	< 5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	< 5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorob	enzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorob	enzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroe	thane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	< 5.0	1,1,2-Trichloroe	thane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	•	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoron	nethane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichlorop	ropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyll	oenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyll	oenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes		179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:		eptable % RC	Dilution Fa	ctor: 1		
Dibromofluoromethane:		65-130 %		fiers: None		
Toluene-d8:		58-130 %	<u>- 314 40411</u>			
	- '					

Lab Reference #: NAM 27815

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	Client Sample ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B45-0.5			27815-001	4/3/2023 16:	47 4/3/202	23 8:00	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Arsenic	6010B	3.3	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Barium	6010B	120	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Beryllium	6010B	< 0.50	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Cadmium	6010B	0.56	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Chromium	6010B	13	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Cobalt	6010B	8.5	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Copper	6010B	36	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Lead	6010B	200	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Mercury	7471A	0.26	mg/kg	04/03/23 17:00	04/04/23 14:44		1
	Molybdenum	6010B	<1.0	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Nickel	6010B	14	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Selenium	6010B	<4.8	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Silver	6010B	<0.50	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Thallium	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Vanadium	6010B	32	mg/kg	04/04/23 09:10	04/04/23 14:52		1
	Zinc	6010B	250	mg/kg	04/04/23 09:10	04/04/23 14:52		1

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	lient Sample ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B45-15			27815-005	4/3/2023 16:	47 4/3/20	23 8:35	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Antimony	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Arsenic	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Barium	6010B	72	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Beryllium	6010B	<0.50	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Cadmium	6010B	<0.50	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Chromium	6010B	9.0	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Cobalt	6010B	7.6	7.6 mg/kg		04/04/23 14:55		1	
	Copper	6010B	7.9	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Lead	6010B	2.0	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Mercury	7471A	<0.10	mg/kg	04/03/23 17:00	04/04/23 14:46		1	
	Molybdenum	6010B	<1.0	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Nickel	6010B	6.3	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Selenium	6010B	<4.8	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Silver	6010B	<0.50	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Thallium	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Vanadium	6010B	25	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
	Zinc	6010B	36	mg/kg	04/04/23 09:10	04/04/23 14:55		1	
B20-W-0.5			27815-006	4/3/2023 16:	47 4/3/20	23 9:39	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 15:05		1	

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B20-E-0.5			27815-008	4/3/2023 16:4	47 4/3/20	23 9:57	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.6	mg/kg	04/04/23 09:10	04/04/23 15:09		1	
B21-W-0.5			27815-010	4/3/2023 16:4	47 4/3/20	23 10:19	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	7.6	mg/kg	04/04/23 09:10	04/04/23 15:12		1	
B4-E-0.5			27815-015	4/3/2023 16:4	47 4/3/20	23 11:02	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	26	mg/kg	04/04/23 09:10	04/04/23 15:16		1	
B4-W-0.5			27815-018	4/3/2023 16:4	47 4/3/20	23 11:12	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	720	mg/kg	04/04/23 09:10	04/04/23 15:26		1	
B4-N-0.5			27815-024	4/3/2023 16:4	47 4/3/20	23 11:32	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	35	mg/kg	04/04/23 09:10	04/04/23 15:29		1	
B2-N-0.5			27815-035	4/3/2023 16:4	47 4/3/20	23 13:07	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.9	mg/kg	04/04/23 09:10	04/04/23 15:31		1	

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	ient Sample ID		Lab Sample Number	Date Date Received Sampled			Matrix			
B42A-0.5			27815-038	4/3/2023 16:	47 4/3/20	23 13:44	Soil			
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>		
	Arsenic	6010B	63	mg/kg	04/04/23 09:10	04/04/23 15:34		1		
B44-0.5			27815-041	4/3/2023 16:	47 4/3/20	23 14:16	Soil			
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>		
	Antimony	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Arsenic	6010B	3.1	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Barium	6010B	130	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Beryllium	6010B	<0.50	mg/kg	mg/kg 0	04/04/23 09:10	04/04/23 14:59		1	
	Cadmium	6010B	<0.50	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Chromium	6010B	20	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Cobalt	6010B	12	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Copper	6010B	17	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Lead	6010B	29	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Mercury	7471A	< 0.10	mg/kg	04/03/23 17:00	04/04/23 14:48		1		
	Molybdenum	6010B	<1.0	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Nickel	6010B	13	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Selenium	6010B	<4.8	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Silver	6010B	<0.50	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Thallium	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Vanadium	6010B	42	mg/kg	04/04/23 09:10	04/04/23 14:59		1		
	Zinc	6010B	100	mg/kg	04/04/23 09:10	04/04/23 14:59		1		

Lab Reference #: NAM 27815 Project Name: LAUSD 49th Street PEA

Project #: 211936010

B44-2.5 EPA Method Result Units Date Extracted Date Analyzed QAntimony 6010B <2.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B <2.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 130 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 130 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 130 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 40.50 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 40.50 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 18 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 12 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 17 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 4.4 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 4.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 4.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B 4.8 mg/kg 04/04/23 09:10 04/04/23 15:02 Arseni	<u>Qual</u> <u>DF</u> 1 1	
Antimony 6010B <2.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Arsenic 6010B <2.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Barium 6010B 130 mg/kg 04/04/23 09:10 04/04/23 15:02 Beryllium 6010B <0.50 mg/kg 04/04/23 09:10 04/04/23 15:02 Cadmium 6010B <0.50 mg/kg 04/04/23 09:10 04/04/23 15:02 Chromium 6010B 18 mg/kg 04/04/23 09:10 04/04/23 15:02 Chromium 6010B 18 mg/kg 04/04/23 09:10 04/04/23 15:02 Chobalt 6010B 12 mg/kg 04/04/23 09:10 04/04/23 15:02 Copper 6010B 17 mg/kg 04/04/23 09:10 04/04/23 15:02 Lead 6010B 4.4 mg/kg 04/04/23 09:10 04/04/23 15:02 Mercury 7471A <0.10 mg/kg 04/04/23 09:10 04/04/23 15:02 Molybdenum 6010B <1.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Nickel 6010B 12 mg/kg 04/04/23 09:10 04/04/23 15:02	1	
Arsenic 6010B <2.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Barium 6010B 130 mg/kg 04/04/23 09:10 04/04/23 15:02 Beryllium 6010B <0.50		: -
Barium 6010B 130 mg/kg 04/04/23 09:10 04/04/23 15:02 Beryllium 6010B <0.50	1	
Beryllium 6010B <0.50 mg/kg 04/04/23 09:10 04/04/23 15:02 Cadmium 6010B <0.50		
Cadmium 6010B <0.50 mg/kg 04/04/23 09:10 04/04/23 15:02 Chromium 6010B 18 mg/kg 04/04/23 09:10 04/04/23 15:02 Cobalt 6010B 12 mg/kg 04/04/23 09:10 04/04/23 15:02 Copper 6010B 17 mg/kg 04/04/23 09:10 04/04/23 15:02 Lead 6010B 4.4 mg/kg 04/04/23 09:10 04/04/23 15:02 Mercury 7471A <0.10	1	
Chromium 6010B 18 mg/kg 04/04/23 09:10 04/04/23 15:02 Cobalt 6010B 12 mg/kg 04/04/23 09:10 04/04/23 15:02 Copper 6010B 17 mg/kg 04/04/23 09:10 04/04/23 15:02 Lead 6010B 4.4 mg/kg 04/04/23 09:10 04/04/23 15:02 Mercury 7471A <0.10	1	
Cobalt 6010B 12 mg/kg 04/04/23 09:10 04/04/23 15:02 Copper 6010B 17 mg/kg 04/04/23 09:10 04/04/23 15:02 Lead 6010B 4.4 mg/kg 04/04/23 09:10 04/04/23 15:02 Mercury 7471A <0.10	1	
Copper 6010B 17 mg/kg 04/04/23 09:10 04/04/23 15:02 Lead 6010B 4.4 mg/kg 04/04/23 09:10 04/04/23 15:02 Mercury 7471A <0.10	1	
Lead 6010B 4.4 mg/kg 04/04/23 09:10 04/04/23 15:02 Mercury 7471A <0.10	1	
Mercury 7471A <0.10 mg/kg 04/03/23 17:00 04/04/23 14:50 Molybdenum 6010B <1.0	1	
Molybdenum 6010B <1.0 mg/kg 04/04/23 09:10 04/04/23 15:02 Nickel 6010B 12 mg/kg 04/04/23 09:10 04/04/23 15:02	1	
Nickel 6010B 12 mg/kg 04/04/23 09:10 04/04/23 15:02	1	
	1	
Selenium 6010B <4.8 mg/kg 04/04/23 09:10 04/04/23 15:02	1	
Ocicinani 0010b (4.0 ing/kg 04/04/20 03.10 04/04/20 13.02	1	
Silver 6010B <0.50 mg/kg 04/04/23 09:10 04/04/23 15:02	1	
Thallium 6010B <2.0 mg/kg 04/04/23 09:10 04/04/23 15:02	1	
Vanadium 6010B 42 mg/kg 04/04/23 09:10 04/04/23 15:02	1	
Zinc 6010B 62 mg/kg 04/04/23 09:10 04/04/23 15:02	1	
B14-E-0.5 27815-044 4/3/2023 16:47 4/3/2023 14:40 Soil		
ANALYTE EPA Method Result Units Date Extracted Date Analyzed Q	<u>ual</u> <u>DF</u>	
Arsenic 6010B 4.6 mg/kg 04/04/23 09:10 04/04/23 15:36	1	

Lab Reference #: NAM 27815

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample I	D		Lab Sample Number	Date Received	Date Sampl		Matrix		
B14-S-0.5			27815-046	4/3/2023 16:	47 4/3/202	23 14:45	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	7.0	mg/kg	04/04/23 09:10	04/04/23 15:39		1	
Method Blank							Soil		
MB ID	ANALYTE	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBHV0404231	Antimony	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Arsenic	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Barium	6010B	<1.0	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Beryllium	6010B	< 0.50	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Cadmium	6010B	< 0.50	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Chromium	6010B	< 0.50	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Cobalt	6010B	< 0.50	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Copper	6010B	< 5.0	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Lead	6010B	<0.80	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0403233	Mercury	7471A	<0.10	mg/kg	04/03/23 17:00	04/04/23 14:15		1	
MBHV0404231	Molybdenum	6010B	<1.0	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Nickel	6010B	<1.0	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Selenium	6010B	<4.8	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Silver	6010B	<0.50	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Thallium	6010B	<2.0	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Vanadium	6010B	<0.50	mg/kg	04/04/23 09:10	04/04/23 14:28		1	
MBHV0404231	Zinc	6010B	<5.0	mg/kg	04/04/23 09:10	04/04/23 14:28		1	

QA/QC Report

for

Extactable Fuel Hydrocarbons (EPA 8015B/8015M)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/6/2023 15:00 <u>Date of Analysis:</u> 4/10/2023 22:05 <u>Dup Date of Analysis:</u> 4/10/2023 22:27

<u>Laboratory Sample #:</u> 27812-001 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27815

Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual	
EFH as Diesel	11.0	1000	1560	1450	155	144	7	8-193	20		

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Octacosane	154	142		111	102		40-160

Laboratory Control Sample

 Date of Extraction:
 4/6/2023
 15:00

 Date of Analysis:
 4/10/2023
 21:01

 Dup Date of Analysis:
 4/10/2023
 21:22

 Laboratory Sample #:
 LY0406232

 LCS Qualifiers:
 None

Analvte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual	Ì
Allalyte	CONC	LUS	LCSD	/₀LC3	/0LC3D	KFD	/0LC3	KFD	Quai	i
EFH as Diesel	1000	1060	1020	106	102	4	17-180	42		ı

QA/QC Report

for

Volatile Fuel Hydrocarbons (EPA 8015B)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/5/2023 13:00 <u>Date of Analysis:</u> 4/5/2023 14:50 <u>Dup Date of Analysis:</u> 4/5/2023 15:11

<u>Laboratory Sample #:</u> 27812-001 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27815

		SPC						ACP	ACP		ĺ
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual	ı
VFH as Gasoline	0.00	0.250	0.220	0.163	88	65	30	20-144	50		ı

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
α - α - α -Trifluorotoluene	98	82		98	99		32-153

Laboratory Control Sample

 Date of Extraction:
 4/5/2023
 13:00

 Date of Analysis:
 4/5/2023
 13:59

 Dup Date of Analysis:
 4/5/2023
 14:18

 Laboratory Sample #:
 LY0405231

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual	
										ı
VFH as Gasoline	0.250	0.213	0.240	85	96	12	38-130	27		Ì

QA/QC Report for

Volatile Organic Compounds (8260B)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

 Date of Extraction:
 4/4/2023
 9:59

 Date of Analysis:
 4/4/2023
 12:47

 Dup Date of Analysis:
 4/4/2023
 13:07

<u>Laboratory Sample #:</u> 27812-001 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27815

		Spike						ACP	ACP	
Analyte	R	Conc.	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
Benzene	0.00	10.0	8.27	8.47	83	85	2	70-138	20	
Chlorobenzene	0.00	10.0	8.71	8.88	87	89	2	70-132	20	
1,1-Dichloroethene	0.00	10.0	6.23	6.67	62	67	7	46-130	20	
Toluene	0.00	10.0	8.32	8.56	83	86	3	70-130	20	
Trichloroethene	0.00	10.0	8.06	8.16	81	82	1	70-135	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	85	85	
Toluene-d8	84	84	
4-Bromofluorobenzene	88	86	

LCS	LCSD	Qual
85	86	
84	85	
86	88	

ACP % RC

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 4/4/2023
 9:59

 Date of Analysis:
 4/4/2023
 12:05

 Dup Date of Analysis:
 4/4/2023
 12:26

<u>Laboratory Sample #:</u> HT0404231 <u>LCS/LCSD Qualifiers:</u> None

	Spike						ACP	ACP	
Analyte	Conc.	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
Benzene	10.0	8.42	8.13	84	81	4	70-134	20	
Chlorobenzene	10.0	8.70	8.50	87	85	2	70-130	20	
1,1-Dichloroethene	10.0	6.48	6.08	65	61	6	48-130	20	
Toluene	10.0	8.35	8.07	84	81	3	70-130	20	
Trichloroethene	10.0	8.36	8.04	84	80	4	70-132	20	

QA/QC Report for Metals

Reference #: NAM 27815 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27811-005 Date of Extraction: 04/03/23 17:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Mercury	04/04/23 14:22	04/04/23 14:24	0.12	1.00	1.01	0.939	89	82	7	80-120	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: HV0403233 Date of Extraction: 04/03/23 17:00

6010B/7471A

Laboratory Ca		00	Dute	oi Extitue	,t.ioii. o	., 00, 20						
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Mercury	04/04/23 14:17	04/04/23 14:18		1.00	1.03	0.995	103	100	3	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #:27815-001Date of Extraction:04/04/23 09:10

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	мѕ	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Antimony	04/04/23 14:45	04/04/23 14:49	0.00	20.0	5.55	5.26	28	26	5	75-125	20	M2,
Arsenic	04/04/23 14:45	04/04/23 14:49	3.30	20.0	19.9	20.6	83	87	3	75-125	20	
Barium	04/04/23 14:45	04/04/23 14:49	120	20.0	187	197	335	385	5	75-125	20	M3,
Beryllium	04/04/23 14:45	04/04/23 14:49	0.00	20.0	17.7	18.3	89	91	3	75-125	20	
Cadmium	04/04/23 14:45	04/04/23 14:49	0.560	20.0	16.6	17.2	80	83	4	75-125	20	
Chromium	04/04/23 14:45	04/04/23 14:49	13.0	20.0	29.3	30.8	81	89	5	75-125	20	
Cobalt	04/04/23 14:45	04/04/23 14:49	8.50	20.0	24.6	25.5	81	85	4	75-125	20	
Copper	04/04/23 14:45	04/04/23 14:49	36.0	20.0	43.0	45.7	35	49	6	75-125	20	M3,
Lead	04/04/23 14:45	04/04/23 14:49	200	20.0	137	142	0	0	4	75-125	20	M3,
Molybdenum	04/04/23 14:45	04/04/23 14:49	0.00	20.0	16.5	17.2	83	86	4	75-125	20	
Nickel	04/04/23 14:45	04/04/23 14:49	14.0	20.0	29.5	30.0	78	80	2	75-125	20	
Selenium	04/04/23 14:45	04/04/23 14:49	0.00	20.0	14.5	18.0	73	90	22	75-125	20	M2, R2,
Silver	04/04/23 14:45	04/04/23 14:49	0.00	20.0	16.8	17.6	84	88	5	75-125	20	
Thallium	04/04/23 14:45	04/04/23 14:49	0.00	20.0	14.3	14.6	72	73	2	75-125	20	M2,
Vanadium	04/04/23 14:45	04/04/23 14:49	32.0	20.0	46.1	47.9	70	80	4	75-125	20	M3,
Zinc	04/04/23 14:45	04/04/23 14:49	250	20.0	215	227	0	0	5	75-125	20	M3,

QA/QC Report for Metals

Reference #: NAM 27815 Reporting units: ppm

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

04/04/23 14:34

04/04/23 14:34

6010B/7471A

Laboratory Sample #: HV0404231 Date of Extraction: 04/04/23 09:10 LCS Date **LCSD Date** SPC ACP ACP LCSD of Analysis CONC Analyte LCS **LCS** LCSD **RPD** %LCS **RPD** Qualifiers of Analysis Antimony 04/04/23 14:31 04/04/23 14:34 20.0 17.8 89 80-120 17.8 89 0 20 ----Arsenic 04/04/23 14:31 04/04/23 14:34 20.0 18.1 18.1 91 91 0 80-120 20 Barium 04/04/23 14:31 04/04/23 14:34 20.0 18.8 18.5 94 93 2 80-120 20 Beryllium 04/04/23 14:31 04/04/23 14:34 20.0 18.1 18.0 91 90 1 80-120 20 --Cadmium 04/04/23 14:34 20.0 17.8 80-120 04/04/23 14:31 --17.8 89 89 0 20 --Chromium 04/04/23 14:31 04/04/23 14:34 20.0 19.7 19.4 99 97 2 80-120 20 Cobalt 80-120 04/04/23 14:31 04/04/23 14:34 20.0 20.1 20.1 101 101 0 20 --04/04/23 14:31 04/04/23 14:34 20.0 19.1 18.9 96 94 80-120 Copper 20 --1 --Lead 04/04/23 14:31 04/04/23 14:34 --20.0 18.6 19.0 93 95 2 80-120 20 Molybdenum 04/04/23 14:31 04/04/23 14:34 20.0 18.2 18.2 91 91 0 80-120 20 Nickel 04/04/23 14:31 04/04/23 14:34 20.0 20.4 20.4 102 102 0 80-120 20 Selenium 04/04/23 14:34 20.0 18.2 89 80-120 04/04/23 14:31 17.8 91 2 20 ----Silver 04/04/23 14:31 04/04/23 14:34 20.0 19.4 19.2 97 96 80-120 20 --1 --Thallium 04/04/23 14:31 04/04/23 14:34 20.0 18.3 18.6 91 93 2 80-120 20 ----

17.7

19.7

17.4

19.6

89

99

87

98

2

1

80-120

80-120

20

20

--

20.0

20.0

--

Vanadium

Zinc

04/04/23 14:31

04/04/23 14:31

Data Qualifier Definitions

Qualifier

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable.

27815-001	6010B	Antimony	MS/MSD
27815-001	6010B	Selenium	MS
27815-001	6010B	Thallium	MS/MSD

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

27815-001	6010B	Barium	MS/MSD
27815-001	6010B	Copper	MS/MSD
27815-001	6010B	Lead	MS/MSD
27815-001	6010B	Vanadium	MS
27815-001	6010B	Zinc	MS/MSD

R2 = RPD/RSD exceeded the laboratory acceptance limit.

27815-001 6010B Selenium MS/MSD

S1 = Surrogate recovery was above laboratory acceptance limits.

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

ORANGE COAST ANALYTIC	CAL, INC.		www	.ocalab.	com	Lab	Job N	lo.:	2	17	81	5		P	age:_) of 4
3002 Dow Avenue, Suite 532		4620 East Elw	ood Street, Su	iite 4			Α	NALY	SIS RE	QUES	T/P	RESE	RVATI	ON		1
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714)	832-0067	Phoenix, AZ 2 Phone: (480) 73	85040 6-0960 Fax: (480	0) 736-0970											*	REQUESTED TURN-AROUND-TIME
CUSTOMER INFORMATION		PRO	DJECT INFORM	ATION						171A	199			1		Standard: X
Company: Ninyo & Moore	Project	Name: LAU	JSD 49th Street	t PEA						6010B/7471A	Hexavalent Chromium by EPA 7199					
Send Report To: Dennis Fee	Project	Number: 211	936010]				6010	by E		_		88	72 Hour:
Email: dfee@ninyoandmoore.com	PO #:					B	108	OCPs by EPA 8081A		Title 22 Metals by EPA	nium		PAHs by EPA 8270-SIM	98	TPH-g,d,o by EPA 8015B	
Address: 475 Goddard	Address	(City / State):	Los Angeles,	CA		6010	A 6C	808	8082	ls by	hron	N)	8270	8260	EPA	48 Hour:
Irvine, CA 92618	EDD Red	quired: Scri	be EDD			EPA	эу ЕР	EPA	EPA	Meta	ant	by F	EPA	EPA	o by	
Phone: (949) 753-7070 Fax:	Sample	d By: AC/	EAC	Lefende	-P	Lead by EPA 6010B	enic	s by	PCBs by EPA 8082	22 1	avale	Asbestos by PLM	Is by	VOCs by EPA 8260B	-B,d,	24 Hour:
Customer Sample IDs	No. of Containe	rs Sample Date	Sample Time	Sample Matrix	Container Type	_	Ars	OCE	PCB	Ĕ	Hex	Asb	PA	VÕ	TPH	REMARKS / INSTRUCTIONS
845 - 0.5	5	43 23	0800	SS	902/00/100	s		,iii		X				X	\boxtimes	
B45-2.5	1.1	1	0805	1	1					iii				iii		HOLD
B45-5			0815													HOLD
B45 - 10			0830													HOLD
B45-15	1		0835		7					X				X	X	
B20-W-0.5	1		0939		902 jar		X									
B20-W-2.5	1		0941		1		X	1	AC.							HOUD
B20 - E - 0.5			0957				X									
B20-E-2.5			1003													HOLD
B21-W-0.5		1 - 1	1019				X									· IOCE
B21-W-Z.5			1025													HOLD
B4-E2-0.5			1055		7-1		X	TE	3							HOLD
B4-E2-2.5			1057					1	-							HOLD
B4-E2-5	1	1	1059	J	1											HOLD
No. of Samples: 14 Method of Ship	pment:				Preservative:	1	= Ice	2	2 = HC	1 3	= HN	102	4=	H ₂ SC).	5 = NaOH 6 = Other
Relinquished By: Date	: 4/3/23 :: 1647	Received By: Company:			Date	e:				Sar	mple	Matri			4	DW - Drinking Water AQ - Aqueous
Relinquished By: Date	:	Received By:			Date	e:				V	/W -	Wast	ewate	er		SS - Soil / Solid
Time Company:	21	Company:			Tim	e:				S	W - S	torm	water			OT Other
Rolinguished By:		Received For	OCA Bu:			11	/ > /	10							_	NES
Time		Reath	(De		Date	е: Ч е:	13/	23				Integ	rity:	0=1	3	t 0=3'C
Company:		Company:	DLAUS				, -			inta	act:	_	_	Un lo	ce: (Y	es) No @°C

Analysis Request & (1 of Custody Record

Analysis Request & C 1 of Custody Record

	-	- 40		
Lab Job No.:	C	1	198	5

ORANGE COAST ANALYTICAL, II	VC.		www	.ocalab.	com	Lab	Job N	0.: _	1	19	1)		Pa	age: _	2 of 4
3002 Dow Avenue, Suite 532		4620 East Elv	vood Street, Sui	ite 4			A	NALYS	SIS RE	QUES	ST/P	RESEF	RVATI	ON		
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067	7	Phoenix, AZ Phone: (480) 73	85040 6-0960 Fax: (480) 736-0970												REQUESTED TURN-AROUND-TIME
CUSTOMER INFORMATION		PR	OJECT INFORMA	ATION						71A	199					Standard; X
Company: Ninyo & Moore	Project	Name: LAI	USD 49th Street	PEA						6010B/7471A	Hexavalent Chromium by EPA 7199		***************************************		1	
Send Report To: Dennis Fee	Project	Number: 21:	1936010			7					by E				В	72 Hour:
Email: dfee@ninyoandmoore.com	PO #:						108	<		EPA	nium		-SIM	98	8015	
Address: 475 Goddard	Address	(City / State):	Los Angeles,	CA		by EPA 6010B	Arsenic by EPA 60108	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by EPA	hron	N]	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	48 Hour:
Irvine, CA 92618	EDD Re	quired: Scri	oe EDD			EPA	by EF	EPA	EPA	Meta	ent C	Asbestos by PLM	EPA	EPA	o by	
Phone: (949) 753-7070 Fax:	Sample	d By: EAC/A	1c			λqp	nic	s by	s by	22	avale	esto	s by	s by	-B,d,	24 Hour:
Customer Sample IDs	No. of Containe	Sample Date	Sample Time	Sample Matrix	Container Type	Lead	Arse	OCP	PCB	Title	Нех	Asbe	PAH	VOC	TPH	REMARKS / INSTRUCTIONS
B4-E-0.5	1	4/3/23	1102	22	902 jar		X			011						
B4-E-2.5	1	1	1105	1	l i											HOLD
B4-E-5			1110													HOLD
B4-W-0.5			1112				X									1,000
B4-W-2.5			1114													HOLD
B4-W-5			1116													HOLD
B4-W2-0.5			1126													HOLD
B4-W2-2.5	11		1128			T										HOLD
B4-W2-5			1136													HOLD
B4-N-0.5			1132				X									1106
B4-N-2.5			1134													HOLD
B4-N-5			1136													HOLD

1				110		1					11009
B4-N2-0.5				1205							HOLD
B4-N2-2.5		4	1	1207	7	1					HOLD
No. of Samples: 14	Method of Shipment:				-	reservative:	1 = lce	2 = HCl	3 = HNO ₃	4 = H ₂ SO ₄	5 = NaOH 6 = Other
Relinquished By: Ed Chares	Date: 4/3/2	3	Received By	<i>r</i> :		Date: Time:			Sample Matr	rix:	DW - Drinking Water
Company: Ningo & Moore	Time: 1647		Company:			Time.			GW - Grou	ndwater	AQ - Aqueous
Relinquished By:	Date:	0.7	Received By	:		Date:			WW - Was	tewater	SS - Soil / Solid
Company:	Time:		Company:			Time:			SW - Storm	water	OT-Other 123
Relinquished By:	Date:		Received Fo	COCA BY			11312		Sample Integ	grity:	310=32
Company:	Time:		Company:	OLAUA		Time:	104	1	Intact:	On Ice:	(ves)/ No @°C

Analysis Request & (

n of Custody Record

b Job No.:	1	-	F
b Job No.:	1	,	

ANALYSIS REQUEST / PRESERVATION

D	2
Page:	~
- 4	

Company:

Email:

35

44

W

Address:

Send Report To:

Customer Sample IDs

B4-N2-5

B4A - 0.5

B4A - 2.5

B4-7,5

B42A-0.5

No. of Samples:

Relinquished By:

Company: Nin

Relinquished By:

Company: Relinquished By:

Company:

B2-N-0.5

B2-N-2.5

B4A - 5

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

CUSTOMER INFORMATION

Fax:

Ninvo & Moore

475 Goddard

(949) 753-7070

Irvine, CA 92618

Dennis Fee

dfee@ninyoandmoore.com

Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067 www.ocalab.com

Sample

Matrix

SS

4620 East Elwood Street, Suite 4

Phoenix, AZ 85040

EAC

Sample Date

4/3/23

Project Name:

EDD Required:

Sampled By:

5

Received By:

Company:

Company:

Received For OCA BY

Received By:

Method of Shipment:

Date: Time:

Date:

Time:

No. of

Containers

PO #:

Project Number:

Address (City / State):

Phone: (480) 736-0960 Fax: (480) 736-0970

211936010

PROJECT INFORMATION

LAUSD 49th Street PFA

Los Angeles, CA

Sample Time

1209

1218

1220

1222 1235

1307

1310 1313 1344

1346 1348 1416

1418

												REQUESTED TURN-AROUND-TIME
						7471A	7199					Standard: X
					PCBs by EPA 8082	Title 22 Metals by EPA 6010B/7471A	Hexavalent Chromium by EPA 7199	Asbestos by PLM	NIS	VOCs by EPA 8260B	8015B	72 Hour:
		A 6010B	EPA 601	A 8081	A 8082	tals by E	Chromi	/ PLM	A 8270-	A 8260B	by EPA	48 Hour:
		Lead by EPA 60108	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	e 22 Me	xavalent	oestos by	Hs by EP.	Cs by EP.	TPH-g,d,mo by EPA 8015B	24 Hour:
	iner Type	Leg	Ars	8	PC	Ē	He	Ast	PA	9	Į.	REMARKS / INSTRUCTIONS
902	jar											HOLD
- 1	1		X	E	40		ei i					HOLL
												HOLD
												HOLIS
~												HOLD
												HOLD
			\times									
				1.		21						HOLD
												HOLD
			X									
											, = :	HOLD
												HOLD
	+4 16%					X				X	X	
						\bowtie				$ \forall $	$\stackrel{\frown}{\times}$	
Prese	vative:	1	= Ice	2	= HC	3	= HN	03	4=	H ₂ SO		5 = NaOH 6 = Other
	Date	:						Matri				
	Time											DW - Drinking Water
						G	W - G	roun	dwate	er		AQ - Aqueous
	Date				Ī	V	/W - 1	Waste	ewate	r		SS - Soil / Solid
	Time	:				S	W - St	ormv	vater			OT - Other

Sample Integrity:

Intact:

On Ice: (Yes / No @

Time:

Analysis Request & (

4620 East Elwood Street, Suite 4

n of Custody Record

4

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

www.ocalab.com

com

Lab Job No.: 278/5

ANALYSIS REQUEST / PRESERVATION

Page: 4

of 4

Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714)	0 022 0007	Phoenix, AZ 8		1725 0070												REQUESTED
CUSTOMER INFORMATION	1 632-0007					-				ΑI	6					TURN-AROUND-TIME
			JECT INFORMA			4				Title 22 Metals by EPA 6010B/7471A	Hexavalent Chromium by EPA 7199					Standard: X
Company: Ninyo & Moore	Project N		SD 49th Street	PEA		-				108,	EP.A					
Send Report To: Dennis Fee	Project N	umber: 2119	936010			4				A 60	m by		Σ		TPH-g,d,mo by EPA 8015B	72 Hour:
Email: <u>dfee@ninyoandmoore.com</u>	PO #:					8	Arsenic by EPA 6010B	14	2	y EP	min		PAHs by EPA 8270-SIM	909	PA 8	
Address: 475 Goddard		City / State):	Los Angeles, (CA		601	PA 6	808	808	als b	Chro	PLR	827	826	by E	48 Hour:
Irvine, CA 92618	EDD Requ		,			Lead by EPA 6010B	by E	OCPs by EPA 8081A	PCBs by EPA 8082	Met	ent	Asbestos by PLM	EPA	VOCs by EPA 8260B	OH.	
Phone: (949) 753-7070 Fax:	Sampled No. of	By: EAC P	4	1 general	1	d by	enic	s by	s by	22	aval	esto	s by	s by	, p'9-	24 Hour:
Customer Sample IDs	Containers	Sample Date	Sample Time	Sample Matrix	Container Type	Lea	Ars	OCF	PCB	Title	Hex	Asb	PAH	000	TPH	REMARKS / INSTRUCTIONS
B44-5	5	4/3/23	1420	SS	902/4/9VOS											HOLD
B14-E-0.5	1	1	1440	1	90z jar		X									10
B14 - E - 2.5			1441		1											HOLD
B14-S- 0.5			1445				X									11002
B14-5-2.5	1	1	1447	1	1											HOLD
			111	3123												
	1.7	F	AL T	1210												
		-														
										Н						
				1		H	+			\vdash					-	
				+		-	-			\dashv			_			
	_			-		-	\vdash									
No. of Samples: 5 Method of Sh	ipment: Hand	delive	~d		Preservative:	1	1 = Ice	2	= HC	3	= HN	n.	1-	H ₂ SC		5 = NaOH 6 = Other
Relinquished By:	e: 4/3/23	Received By:			Date		100		. 110			Matri		11250		
Pa I VINIMI I		1								Sali	ilpie	viatri	х.			DW - Drinking Water
Company: Nihyo! Moore	e: 1647	Company:			Time	e;				G	W - 6	roun	dwat	er		AQ - Aqueous
Relinquished By: Dat	e:	Received By:			Date	e:				W	/W -	Waste	ewate	er		SS - Soil / Solid
Tim	e:				Time	e:				-						20 2011/20114
Company:		Company:								31	W - 3	LOTTIN	water			OT - Other
Relinquished By: Dat		Received For C	all		Date		15/					ntegr		Onle	3	10=3-2-123 25) No @°C
Company:		Company:	DUANA							IIII	ict.	_	_	On Id	re: Le	25) NO @

Sample Receipt Report

Received:	04/03/23 16:	Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delivere	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	Project Name:	LAUSD 49th Street P	EA
# Shipping Containers:	1	Project #:	211936010	
Sample Quantity 47 Soil				
Chain of Custody		Complete 🗸	Incomplete	None
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)	: 3	Thermometer ID: #3	Adjusted Temp.:	3
Shipping Intact		Yes 🗸	N/A 🗌	No 🗌
Shipping Custody Se	als Intact	Yes 🗌	N/A 🗹	No 🗌
Samples Intact		Yes 🗸		No 🗌
Sample Custody Sea	ls Intact	Yes 🗌	N/A 🗹	No 🗌
Custody Seals Signe	d & Dated	Yes 🗌	N/A 🗹	No 🗌
Proper Test Containe	ers	Yes 🗸		No 🗌
Proper Test Preserva	ations	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace	Yes 🗌	N/A 🗹	No 🗌
Sample Labels		Complete 🗸	Incomplete	None [
Sample Information N	Matches COC	Yes 🗸	N/A	No 🗌

Ву

On

Client Notified

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27815A

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/13/2023

Date Reported: 4/27/2023

Chain of Custody Received: <a>

Analytical Method: 8015B, 6010B, 1311/6010B,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B45-0.5	27815-001	4/3/2023	4/3/2023	Soil
B45-2.5	27815-002	4/3/2023	4/3/2023	Soil
B4-E2-0.5	27815-012	4/3/2023	4/3/2023	Soil
B4-E-2.5	27815-016	4/3/2023	4/3/2023	Soil
B4-W-2.5	27815-019	4/3/2023	4/3/2023	Soil
B4-W2-0.5	27815-021	4/3/2023	4/3/2023	Soil
B4-5	27815-033	4/3/2023	4/3/2023	Soil
B42A-0.5	27815-038	4/3/2023	4/3/2023	Soil
B42A-2.5	27815-039	4/3/2023	4/3/2023	Soil

Lab Reference #: NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Extractable Fuel Hydrocarbons (EPA 8015B)

		,	•	,		
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B45-2.5	27815-002	4/3/2023 16:47	4/3/2023 8:05	4/26/2023 15:20	4/27/2023 2:41	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
DROs	<10		Octa	cosane	102	
Dilution Factor: 1 Data Qualifiers: None			* Acc	c Recovery: 4	10-160 %	
B45-2.5	27815-002	4/3/2023 16:47	4/3/2023 8:05	4/26/2023 15:20	4/27/2023 2:41	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	<50		Octa	cosane	102	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	40-160 %	
Method Blank	MBVV0426232			4/26/2023 15:20	4/26/2023 20:13	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
DROs	<10		Octa	cosane	92	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	40-160 %	
Method Blank	MBVV0426232			4/26/2023 15:20	4/26/2023 20:13	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
MROs	<50		Octa	cosane	92	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	c Recovery: 4	40-160 %	

Lab Reference #: NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B45-0.5			27815-001	4/3/2023 16:4	47 4/3/20	23 8:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	TCLP Lead	6010B	0.11	mg/l	04/19/23 10:35	04/20/23 10:55		1	
B45-2.5			27815-002	4/3/2023 16:4	47 4/3/20	23 8:05	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Lead	6010B	2.5	mg/kg	04/18/23 10:30	04/18/23 16:14		1	
B4-E2-0.5			27815-012	4/3/2023 16:4	47 4/3/202	23 10:55	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	46	mg/kg	04/18/23 10:30	04/18/23 15:50		1	
B4-E-2.5			27815-016	4/3/2023 16:4	47 4/3/202	23 11:05	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.1	mg/kg	04/18/23 10:30	04/18/23 15:56		1	
B4-W-2.5			27815-019	4/3/2023 16:4	47 4/3/202	23 11:14	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	130	mg/kg	04/18/23 10:30	04/18/23 16:06		1	
B4-W2-0.5			27815-021	4/3/2023 16:4	47 4/3/202	23 11:26	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	180	mg/kg	04/18/23 10:30	04/18/23 16:08		1	

Lab Reference #: NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample I	D		Lab Sample Number	Date Received	Date Sampl		Matrix		
B4-5			27815-033	4/3/2023 16:	47 4/3/20	23 12:35	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	3.9	mg/kg	04/18/23 10:30	04/18/23 16:10		1	
B42A-2.5			27815-039	4/3/2023 16:	47 4/3/20	23 13:46	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	Arsenic	6010B	2.3	mg/kg	04/18/23 10:30	04/18/23 16:12		1	
Method Blank							Soil		
MB ID	ANALYTE	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBHV0418231	Arsenic	6010B	<2.0	mg/kg	04/18/23 10:30	04/18/23 15:36		1	
MBHV0418231	Lead	6010B	<0.80	mg/kg	04/18/23 10:30	04/18/23 15:36		1	
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0419232	TCLP Lead	6010B	<0.080	mg/l	04/19/23 10:35	04/20/23 10:35		1	
B45-0.5			27815-001	4/3/2023 16:	47 4/3/20	23 8:00	Soil		
	ANALYTE	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
	STLC Lead	6010B	4.7	mg/L	04/17/23 08:30	04/18/23 14:40		1	
B42A-0.5			27815-038	4/3/2023 16:	47 4/3/20	23 13:44	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Arsenic	6010B	2.4	mg/L	04/17/23 08:30	04/18/23 14:43		1	

Lab Reference #: NAM 27815A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample		Matrix		
Method Blank	<						Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBIR0417231	STLC Arsenic	6010B	<0.20	mg/L	04/17/23 08:30	04/18/23 16:16		1	
MBIR0417231	STLC Lead	6010B	<0.20	mg/L	04/17/23 08:30	04/18/23 16:16		1	

QA/QC Report

for

Extactable Fuel Hydrocarbons (EPA 8015B/8015M)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/26/2023 15:20 <u>Date of Analysis:</u> 4/26/2023 21:40 <u>Dup Date of Analysis:</u> 4/26/2023 22:02

<u>Laboratory Sample #:</u> 27864-008 <u>MS/MSD Qualifiers:</u> None

Reference #: NAM 27815A

Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
EFH as Diesel	0.00	1000	646	623	65	62	4	8-193	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Octacosane	100	100		99	100		40-160

Laboratory Control Sample

 Date of Extraction:
 4/26/2023
 15:20

 Date of Analysis:
 4/26/2023
 20:56

 Dup Date of Analysis:
 4/26/2023
 21:18

 Laboratory Sample #:
 VV0426232

 LCS Qualifiers:
 None

	SPC						ACP	ACP	
Analyte	CONC	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
EFH as Diesel	1000	604	656	60	66	8	17-180	42	

QA/QC Report for Metals

Reference #: NAM 27815A Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/6010B

Laboratory Sample #: 27815-012 Date of Extraction: 04/18/23 10:30

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	04/18/23 15:44	04/18/23 15:47	46.0	20.0	64.3	65.2	92	96	1	75-125	20	
Lead	04/18/23 15:44	04/18/23 15:47	3.90	20.0	18.5	19.0	73	75	3	75-125	20	M2,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Laboratory Sample #: HV0418231 Date of Extraction: 04/18/23 10:30

1311/6010B

Laboratory Carr	ipic #. 1100+1020	J.	Date	/ LAUGU	tion. o	1/10/20	0.00					
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	04/18/23 15:39	04/18/23 15:42		20.0	18.3	18.2	91	91	1	80-120	20	-
Lead	04/18/23 15:39	04/18/23 15:42		20.0	18.2	18.3	91	91	1	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/6010B

Laboratory Sample #: 27827-001 Date of Extraction: 04/19/23 10:35

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
TCLP Lead	04/20/23 10:43	04/20/23 10:46	0.19	0.400	0.587	0.569	99	95	3	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

Laboratory Sample #: IR0419232 Date of Extraction: 04/19/23 10:35

1311/6010B

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
TCLP Lead	04/20/23 10:37	04/20/23 10:40	 0.400	0.387	0.379	97	95	2	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/ STLC CCR

Laboratory Sample #: 27844-001 Date of Extraction: 04/17/23 08:30

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
STLC Arsenic	04/18/23 16:22	04/18/23 16:24	0.00	1.00	1.01	1.01	101	101	0	75-125	20	
STLC Lead	04/18/23 16:22	04/18/23 16:24	0.00	1.00	1.01	0.990	101	99	2	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

1311/ STLC CCR

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
STLC Arsenic	04/18/23 16:18	04/18/23 16:20	 1.00	0.924	0.952	92	95	3	80-120	20	
STLC Lead	04/18/23 16:18	04/18/23 16:20	 1.00	0.829	0.861	83	86	4	80-120	20	

Date of Extraction: 04/17/23 08:30

Laboratory Sample #: IR0417231

Data Qualifier Definitions

Qualifier

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable. 27815-012 6010B Lead MS

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

ORANGE COAST ANALYTIC	CAL, INC.		www	.ocalab.	com	Lab	Job N	lo.:	2	17	81	5		P	age:_) of 4
3002 Dow Avenue, Suite 532		4620 East Elw	ood Street, Su	iite 4			Α	NALY	SIS RE	QUES	T/P	RESE	RVATI	ON		1
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714)	832-0067	Phoenix, AZ 2 Phone: (480) 73	85040 6-0960 Fax: (480	0) 736-0970											*	REQUESTED TURN-AROUND-TIME
CUSTOMER INFORMATION		PRO	DJECT INFORM	ATION						171A	199			1		Standard: X
Company: Ninyo & Moore	Project	Name: LAU	JSD 49th Street	t PEA						6010B/7471A	Hexavalent Chromium by EPA 7199					
Send Report To: Dennis Fee	Project	Number: 211	936010]				6010	by E		_		88	72 Hour:
Email: dfee@ninyoandmoore.com	PO #:					B	108	OCPs by EPA 8081A		Title 22 Metals by EPA	nium		PAHs by EPA 8270-SIM	98	TPH-g,d,o by EPA 8015B	
Address: 475 Goddard	Address	(City / State):	Los Angeles,	CA		6010	A 6C	808	8082	ls by	hron	N)	8270	8260	EPA	48 Hour:
Irvine, CA 92618	EDD Red	quired: Scri	be EDD			EPA	эу ЕР	EPA	EPA	Meta	ant	by F	EPA	EPA	o by	
Phone: (949) 753-7070 Fax:	Sample	d By: AC/	EAC	Lefende	-P	Lead by EPA 6010B	enic	s by	PCBs by EPA 8082	22 1	avale	Asbestos by PLM	Is by	VOCs by EPA 8260B	-B,d,	24 Hour:
Customer Sample IDs	No. of Containe	rs Sample Date	Sample Time	Sample Matrix	Container Type	_	Ars	OCE	PCB	Ĕ	Hex	Asb	PA	VÕ	TPH	REMARKS / INSTRUCTIONS
845 - 0.5	5	43 23	0800	SS	902/00/100	s		,iii		X				X	\boxtimes	
B45-2.5	1.1	1	0805	1	1					iii				iii		HOLD
B45-5			0815													HOLD
B45 - 10			0830													HOLD
B45-15	1		0835		7					X				X	X	
B20-W-0.5	1		0939		902 jar		X									
B20-W-2.5	1		0941		1		X	1	AC.							HOUD
B20 - E - 0.5			0957				X									
B20-E-2.5			1003													HOLD
B21-W-0.5		1 - 1	1019				X									· IOCE
B21-W-Z.5			1025													HOLD
B4-E2-0.5			1055		7-1		X	TE	3							HOLD
B4-E2-2.5			1057					1	-							HOLD
B4-E2-5	1	1	1059	J	1											HOLD
No. of Samples: 14 Method of Ship	pment:				Preservative:	1	= Ice	2	2 = HC	1 3	= HN	102	4=	H ₂ SC).	5 = NaOH 6 = Other
Relinquished By: Date	: 4/3/23 :: 1647	Received By: Company:			Date	e:				Sar	mple	Matri			4	DW - Drinking Water AQ - Aqueous
Relinquished By: Date	:	Received By:			Date	e:				V	/W -	Wast	ewate	er		SS - Soil / Solid
Time Company:	21	Company:			Tim	e:				S	W - S	torm	water			OT Other
Rolinguished By:		Received For	OCA Bu:			11	/ > /	10							_	NES
Time		Reath	(De		Date	е: Ч е:	13/	23				Integ	rity:	0=1	3	t 0=3'C
Company:		Company:	DLAUS				, -			inta	act:	_	_	Un lo	ce: (Y	es) No @°C

Analysis Request & (1 of Custody Record

Analysis Request & C 1 of Custody Record

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Lab Job No.:	C	1	198	5

ORANGE COAST ANALYTICAL, II	VC.		www	.ocalab.	com	Lab	Job N	0.: _	1	19	1)		Pa	age: _	2 of 4
3002 Dow Avenue, Suite 532		4620 East Elv	vood Street, Sui	ite 4			A	NALYS	SIS RE	QUES	ST/P	RESEF	RVATI	ON		
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067	7	Phoenix, AZ Phone: (480) 73	85040 6-0960 Fax: (480) 736-0970												REQUESTED TURN-AROUND-TIME
CUSTOMER INFORMATION		PR	OJECT INFORMA	ATION						71A	199					Standard; X
Company: Ninyo & Moore	Project	Name: LAI	USD 49th Street	PEA						6010B/7471A	Hexavalent Chromium by EPA 7199		***************************************		1	
Send Report To: Dennis Fee	Project	Number: 21:	1936010			7					by E				В	72 Hour:
Email: dfee@ninyoandmoore.com	PO #:						108	<		EPA	nium		-SIM	98	8015	
Address: 475 Goddard	Address	(City / State):	Los Angeles,	CA		by EPA 6010B	Arsenic by EPA 60108	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by EPA	hron	N]	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	48 Hour:
Irvine, CA 92618	EDD Re	quired: Scri	oe EDD			EPA	by EF	EPA	EPA	Meta	ent C	Asbestos by PLM	EPA	EPA	o by	
Phone: (949) 753-7070 Fax:	Sample	d By: EAC/A	1c			λqp	nic	s by	s by	22	avale	esto	s by	s by	-B,d,	24 Hour:
Customer Sample IDs	No. of Containe	Sample Date	Sample Time	Sample Matrix	Container Type	Lead	Arse	OCP	PCB	Title	Нех	Asbe	PAH	VOC	TPH	REMARKS / INSTRUCTIONS
B4-E-0.5	1	4/3/23	1102	22	902 jar		X			011						
B4-E-2.5	1	1	1105	1	l i											HOLD
B4-E-5			1110													HOLD
B4-W-0.5			1112				X									1,000
B4-W-2.5			1114													HOLD
B4-W-5			1116													HOLD
B4-W2-0.5			1126													HOLD
B4-W2-2.5	11		1128			T										HOLD
B4-W2-5			1136													HOLD
B4-N-0.5			1132				X									1106
B4-N-2.5			1134													HOLD
B4-N-5			1136													HOLD

1				110		1					11009
B4-N2-0.5				1205							HOLD
B4-N2-2.5		4	1	1207	7	1					HOLD
No. of Samples: 14	Method of Shipment:				-	reservative:	1 = lce	2 = HCl	3 = HNO ₃	4 = H ₂ SO ₄	5 = NaOH 6 = Other
Relinquished By: Ed Chares	Date: 4/3/2 Time: 1647	3	Received By	<i>r</i> :		Date: Time:			Sample Matr	rix:	DW - Drinking Water
Company: Ningo & Moore		Company:			Time.			GW - Grou	ndwater	AQ - Aqueous	
Relinquished By:	Date:	0.7	Received By	:		Date:			WW - Was	tewater	SS - Soil / Solid
Company:	Time:		Company:			Time:			SW - Storm	water	OT-Other 123
Relinquished By:	Date:		Received Fo	COCA BY			11312		Sample Integ	grity:	310=32
Company:	Time:		Company:	OLAUA		Time:	104	1	Intact:	On Ice:	(ves)/ No @°C

Analysis Request & (

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b Job No.:	1	,	

ANALYSIS REQUEST / PRESERVATION

D	2
Page:	~
- 4	

Company:

Email:

35

44

W

Address:

Send Report To:

Customer Sample IDs

B4-N2-5

B4A - 0.5

B4A - 2.5

B4-7,5

B42A-0.5

No. of Samples:

Relinquished By:

Company: Nin

Relinquished By:

Company: Relinquished By:

Company:

B2-N-0.5

B2-N-2.5

B4A - 5

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

CUSTOMER INFORMATION

Fax:

Ninvo & Moore

475 Goddard

(949) 753-7070

Irvine, CA 92618

Dennis Fee

dfee@ninyoandmoore.com

Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067 www.ocalab.com

Sample

Matrix

SS

4620 East Elwood Street, Suite 4

Phoenix, AZ 85040

EAC

Sample Date

4/3/23

Project Name:

EDD Required:

Sampled By:

5

Received By:

Company:

Company:

Received For OCA BY

Received By:

Method of Shipment:

Date: Time:

Date:

Time:

No. of

Containers

PO #:

Project Number:

Address (City / State):

Phone: (480) 736-0960 Fax: (480) 736-0970

211936010

PROJECT INFORMATION

LAUSD 49th Street PFA

Los Angeles, CA

Sample Time

1209

1218

1220

1222 1235

1307

1310 1313 1344

1346 1348 1416

1418

												REQUESTED TURN-AROUND-TIME
						7471A	7199					Standard: X
					PCBs by EPA 8082	Title 22 Metals by EPA 6010B/7471A	Hexavalent Chromium by EPA 7199	Asbestos by PLM	NIS	VOCs by EPA 8260B	8015B	72 Hour:
		A 6010B	EPA 601	A 8081	A 8082	tals by E	Chromi	/ PLM	A 8270-	A 8260B	by EPA	48 Hour:
		Lead by EPA 60108	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	e 22 Me	xavalent	oestos by	Hs by EP.	Cs by EP.	TPH-g,d,mo by EPA 8015B	24 Hour:
	iner Type	Leg	Ars	8	PC	Ē	He	Ast	PA	9	Į.	REMARKS / INSTRUCTIONS
902	jar											HOLD
- 1	1		X	E	40		ei i					HOLL
												HOLD
												HOLIS
~												HOLD
												HOLD
			\times									
				1.		21						HOLD
												HOLD
			X									
											, = :	HOLD
												HOLD
	+4 16%					X				X	X	
						\bowtie				$ \forall $	$\stackrel{\frown}{\times}$	
Prese	vative:	1	= Ice	2	= HC	3	= HN	03	4=	H ₂ SO		5 = NaOH 6 = Other
	Date	:						Matri				
	Time											DW - Drinking Water
						G	W - G	roun	dwate	er		AQ - Aqueous
	Date				Ī	V	/W - 1	Waste	ewate	r		SS - Soil / Solid
	Time	:				S	W - St	ormv	vater			OT - Other

Sample Integrity:

Intact:

On Ice: (Yes / No @

Time:

Analysis Request & (

4620 East Elwood Street, Suite 4

n of Custody Record

4

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

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Lab Job No.: 278/5

ANALYSIS REQUEST / PRESERVATION

Page: 4

of 4

Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714)	0 022 0007	Phoenix, AZ 8		1725 0070												REQUESTED
CUSTOMER INFORMATION	1 632-0007					-				ΑI	6					TURN-AROUND-TIME
			JECT INFORMA			4				Title 22 Metals by EPA 6010B/7471A	Hexavalent Chromium by EPA 7199					Standard: X
Company: Ninyo & Moore	Project N		SD 49th Street	PEA		-				108,	EP.A					
Send Report To: Dennis Fee	Project N	umber: 2119	936010			4				A 60	m by		Σ		TPH-g,d,mo by EPA 8015B	72 Hour:
Email: <u>dfee@ninyoandmoore.com</u>	PO #:					8	Arsenic by EPA 6010B	14	2	y EP	min		PAHs by EPA 8270-SIM	909	PA 8	
Address: 475 Goddard		City / State):	Los Angeles, (CA		601	PA 6	808	808	als b	Chro	PLR	827	826	by E	48 Hour:
Irvine, CA 92618	EDD Requ		,			Lead by EPA 6010B	by E	OCPs by EPA 8081A	PCBs by EPA 8082	Met	ent	Asbestos by PLM	EPA	VOCs by EPA 8260B	OH.	
Phone: (949) 753-7070 Fax:	Sampled No. of	By: EAC P	4	1 general	1	d by	enic	s by	s by	22	aval	esto	s by	s by	, p'9-	24 Hour:
Customer Sample IDs	Containers	Sample Date	Sample Time	Sample Matrix	Container Type	Lea	Ars	OCF	PCB	Title	Hex	Asb	PAH	000	TPH	REMARKS / INSTRUCTIONS
B44-5	5	4/3/23	1420	SS	902/4/9VOS											HOLD
B14-E-0.5	1	1	1440	1	90z jar		X									10
B14 - E - 2.5			1441		1											HOLD
B14-S- 0.5			1445				X									11002
B14-5-2.5	1	1	1447	1	1											HOLD
			111	3123												
	1.7	F	AL T	1210												
		-														
										Н						
				1		H	+			\vdash					-	
				+		-	-			\dashv			_			
	_			-		-	\vdash									
No. of Samples: 5 Method of Sh	ipment: Hand	delive	~d		Preservative:	1	1 = Ice	2	= HC	3	= HN	n.	1-	H ₂ SC		5 = NaOH 6 = Other
Relinquished By:	e: 4/3/23	Received By:			Date		100		. 110			Matri		11250		
Pa I VINIMI I		1								Sali	ilpie	viatri	х.			DW - Drinking Water
Company: Nihyo! Moore	e: 1647	Company:			Time	e;				G	W - 6	roun	dwat	er		AQ - Aqueous
Relinquished By: Dat	e:	Received By:			Date	e:				W	/W -	Waste	ewate	er		SS - Soil / Solid
Tim	e:				Time	e:				-						20 2011/20114
Company:		Company:								31	W - 3	LOTTIN	water			OT - Other
Relinquished By: Dat		Received For C	all		Date		15/					ntegr		Onle	3	10=3" C 1123
Company:		Company:		1.4				Intact: On Ice: (Yes) No @					25) NO @			

Sample Receipt Report

Received:	04/03/23 16:	Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delivere	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	Project Name:	LAUSD 49th Street P	EA
# Shipping Containers:	1	Project #:	211936010	
Sample Quantity 47 Soil				
Chain of Custody		Complete 🗸	Incomplete	None
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)	: 3	Thermometer ID: #3	Adjusted Temp.:	3
Shipping Intact		Yes 🗸	N/A 🗌	No 🗌
Shipping Custody Se	als Intact	Yes 🗌	N/A 🗹	No 🗌
Samples Intact		Yes 🗸		No 🗌
Sample Custody Sea	ls Intact	Yes 🗌	N/A 🗹	No 🗌
Custody Seals Signe	d & Dated	Yes 🗌	N/A 🗹	No 🗌
Proper Test Containe	ers	Yes 🗸		No 🗌
Proper Test Preserva	ations	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace	Yes 🗌	N/A 🗹	No 🗌
Sample Labels		Complete 🗸	Incomplete	None [
Sample Information N	Matches COC	Yes 🗸	N/A	No 🗌

Ву

On

Client Notified

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2025 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27815B

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/25/2023

Date Reported: 4/28/2023

Chain of Custody Received:

✓

Analytical Method: 6010B, 1311/6010B,

Mark Noorani, Laboratory Director

Lab Reference # NAM 27815B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference # NAM 27815B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4-W2-0.5	27815-021	4/3/2023	4/3/2023	Soil

Lab Reference # NAM 27815B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample I	ID		Lab Sample Number	Date Received	Date Sample		Matrix		
B4-W2-0.5			27815-021	4/3/2023 16:4	4/3/202	23 11:26	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	TCLP Arsenic	6010B	4.5	mg/l	04/25/23 17:00	04/28/23 11:22		1	
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBHV0425232	TCLP Arsenic	6010B	<0.080	mg/l	04/25/23 17:00	04/26/23 12:31		1	
B4-W2-0.5			27815-021	4/3/2023 16:4	4/3/202	23 11:26	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Arsenic	6010B	11	mg/L	04/27/23 17:35	04/28/23 11:09		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBHV0427235	STLC Arsenic	6010B	<0.20	mg/L	04/27/23 17:35	04/28/23 10:53		1	

QA/QC Report for

Metals

Reference #: NAM 27815B Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/6010B

	110 D /	110D D 4		000			•	Г
Laboratory San	1ple #: AZ13965	-001	Date o	f Extrac	tion: 0	4/25/23 1	7:00	

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
TCLP Arsenic	04/26/23 12:44	04/26/23 12:47	0.00	0.400	0.382	0.371	95	93	3	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD) Laboratory Sample #: IR0425232 Date of Extraction: 04/25/23 17:00 1311/6010B

Laboratory Carr	ipic #. 1110-12020	_	Date	LAUGU	tion. o	1/20/20	7.00					
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
TCLP Arsenic	04/26/23 12:34	04/26/23 12:36		0.400	0.375	0.386	94	97	3	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/ STLC CCR

Laboratory Sar	mple #: 27815-02	1	Date o	of Extrac	tion: 0	4/27/23 1	17:35					
Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
STLC Arsenic	04/28/23 11:17	04/28/23 11:20	11.0	1.00	13.1	13.4	210	240	2	75-125	20	M3,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

1311/ STLC CCR

Laboratory Sam	nple #: HV04272	35	Date o	of Extrac	tion: 04	4/27/23 1	7:35					
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
STLC Arsenic	04/28/23 10:56	04/28/23 10:58		1.00	0.956	0.963	96	96	1	80-120	20	

Data Qualifier Definitions

Qualifier

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

27815-021

STLC CCR

STLC Arsenic

MS/MSD

Definition of terms:

Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

Percent recovery of MS: {(MS-R1) / SP CONC} x100 %MS %MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100 RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result Percent recovery of LCS: {(LCS) / SP CONC} x100 %LCS %LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2 ACP %LCS Acceptable percent recovery range for Laboratory Control Samples. ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference D Detectable, result must be greater than zero

A checked box indicates a data qualifier was utilized and/or required for this analyte Qual

7 of 7

see attached explanation.

ND Analyte Not Detected

ORANGE COAST ANALYTIC	CAL, INC.		www	.ocalab.	com	Lab	Job N	lo.:	2	17	81	5		P	age:_) of 4
3002 Dow Avenue, Suite 532		4620 East Elw	ood Street, Su	iite 4			Α	NALY	SIS RE	QUES	T/P	RESE	RVATI	ON		1
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714)	832-0067	Phoenix, AZ 2 Phone: (480) 73	85040 6-0960 Fax: (480	0) 736-0970											*	REQUESTED TURN-AROUND-TIME
CUSTOMER INFORMATION		PRO	DJECT INFORM	ATION						171A	199			1		Standard: X
Company: Ninyo & Moore	Project	Name: LAU	JSD 49th Street	t PEA						6010B/7471A	Hexavalent Chromium by EPA 7199					
Send Report To: Dennis Fee	Project	Number: 211	936010]				6010	by E		_		88	72 Hour:
Email: dfee@ninyoandmoore.com	PO #:					B	108	OCPs by EPA 8081A		Title 22 Metals by EPA	nium		PAHs by EPA 8270-SIM	98	TPH-g,d,o by EPA 8015B	
Address: 475 Goddard	Address	(City / State):	Los Angeles,	CA		6010	A 6C	808	8082	ls by	hron	N)	8270	8260	EPA	48 Hour:
Irvine, CA 92618	EDD Red	quired: Scri	be EDD			EPA	эу ЕР	EPA	EPA	Meta	ant	by F	EPA	EPA	o by	
Phone: (949) 753-7070 Fax:	Sample	d By: AC/	EAC	Lefende	-P	Lead by EPA 6010B	enic	s by	PCBs by EPA 8082	22 1	avale	Asbestos by PLM	Is by	VOCs by EPA 8260B	-B,d,	24 Hour:
Customer Sample IDs	No. of Containe	rs Sample Date	Sample Time	Sample Matrix	Container Type	_	Ars	OCE	PCB	Ĕ	Hex	Asb	PA	VÕ	TPH	REMARKS / INSTRUCTIONS
845 - 0.5	5	43 23	0800	SS	902/00/100	s		,iii		X				X	\boxtimes	
B45-2.5	1.1	1	0805	1	1					iii				iii		HOLD
B45-5			0815													HOLD
B45 - 10			0830													HOLD
B45-15	1		0835		7					X				X	X	
B20-W-0.5	1		0939		902 jar		X									
B20-W-2.5	1		0941		1		X	1	AC.							HOUD
B20 - E - 0.5			0957				X									
B20-E-2.5			1003													HOLD
B21-W-0.5		1 - 1	1019				X									· IOCE
B21-W-Z.5			1025													HOLD
B4-E2-0.5			1055		7-1		X	TE	3							HOLD
B4-E2-2.5			1057					1	-							HOLD
B4-E2-5	1	1	1059	J	1											HOLD
No. of Samples: 14 Method of Ship	pment:				Preservative:	1	= Ice	2	2 = HC	1 3	= HN	102	4=	H ₂ SC).	5 = NaOH 6 = Other
Relinquished By: Date	: 4/3/23 :: 1647	Received By: Company:			Date	e:				Sar	mple	Matri			4	DW - Drinking Water AQ - Aqueous
Relinquished By: Date	:	Received By:			Date	e:				V	/W -	Wast	ewate	er		SS - Soil / Solid
Time Company:	21	Company:			Tim	e:				S	W - S	torm	water			OT Other
Rolinguished By:		Received For	OCA Bu:			11	/ > /	10							_	NES
Time		Reath	(De		Date	е: Ч е:	13/	23				Integ	rity:	0=1	3	t 0=3'C
Company:		Company:	DLAUS				, -			inta	act:	_	_	Un lo	ce: (Y	es) No @°C

Analysis Request & (1 of Custody Record

Analysis Request & C 1 of Custody Record

	-	- 40		
Lab Job No.:	C	1	198	5

ORANGE COAST ANALYTICAL, II	VC.		www	.ocalab.	com	Lab	Job N	0.: _	1	19	1)		Pa	age: _	2 of 4
3002 Dow Avenue, Suite 532		4620 East Elv	vood Street, Sui	ite 4			A	NALYS	SIS RE	QUES	ST/P	RESEF	RVATI	ON		
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067	,	Phoenix, AZ Phone: (480) 73	85040 6-0960 Fax: (480) 736-0970												REQUESTED TURN-AROUND-TIME
CUSTOMER INFORMATION		PR	OJECT INFORMA	ATION						71A	199					Standard; X
Company: Ninyo & Moore	Project	Name: LAI	USD 49th Street	PEA						6010B/7471A	Hexavalent Chromium by EPA 7199		***************************************		-	
Send Report To: Dennis Fee	Project	Number: 21:	1936010			7					by E				В	72 Hour:
Email: dfee@ninyoandmoore.com	PO #:						108	<		EPA	nium		-SIM	98	8015	
Address: 475 Goddard	Address	(City / State):	Los Angeles,	CA		by EPA 6010B	Arsenic by EPA 60108	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by EPA	hron	N]	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,o by EPA 8015B	48 Hour:
Irvine, CA 92618	EDD Re	quired: Scri	oe EDD			EPA	by EF	EPA	EPA	Meta	ent C	Asbestos by PLM	EPA	EPA	o by	
Phone: (949) 753-7070 Fax:	Sample	d By: EAC/A	1c			λqp	nic	s by	s by	22	avale	esto	s by	s by	-B,d,	24 Hour:
Customer Sample IDs	No. of Containe	Sample Date	Sample Time	Sample Matrix	Container Type	Lead	Arse	OCP	PCB	Title	Нех	Asbe	PAH	VOC	TPH	REMARKS / INSTRUCTIONS
B4-E-0.5	1	4/3/23	1102	22	902 jar		X			011						
B4-E-2.5	1	1	1105	1	l i											HOLD
B4-E-5			1110													HOLD
B4-W-0.5			1112				X									1,000
B4-W-2.5			1114													HOLD
B4-W-5			1116													HOLD
B4-W2-0.5			1126													HOLD
B4-W2-2.5	11		1128			T										HOLD
B4-W2-5			1136													HOLD
B4-N-0.5			1132				X									1106
B4-N-2.5			1134													HOLD
B4-N-5			1136													HOLD

1				110		1					11009
B4-N2-0.5				1205							HOLD
B4-N2-2.5		4	1	1207	7	1					HOLD
No. of Samples: 14	Method of Shipment:				-	reservative:	1 = lce	2 = HCl	3 = HNO ₃	4 = H ₂ SO ₄	5 = NaOH 6 = Other
Relinquished By: Ed Chares	Date: 4/3/2	3	Received By	<i>r</i> :		Date: Time:			Sample Matr	rix:	DW - Drinking Water
Company: Ningo & Moore	Time: 1647		Company:			Time.			GW - Grou	ndwater	AQ - Aqueous
Relinquished By:	Date:	0.7	Received By	:		Date:			WW - Was	tewater	SS - Soil / Solid
Company:	Time:		Company:			Time:			SW - Storm	water	OT-Other 123
Relinquished By:	Date:		Received Fo	COCA BY			11312		Sample Integ	grity:	310=32
Company:	Time:		Company:	OLAUA		Time:	104	1	Intact:	On Ice:	(ves)/ No @°C

Analysis Request & (

n of Custody Record

ab Job No.:	1	-	15
ab Job No.:	1	-	

ANALYSIS REQUEST / PRESERVATION

Dane.	2
Page:	~
- 4	

Company:

Email:

35

44

W

Address:

Send Report To:

Customer Sample IDs

B4-N2-5

B4A - 0.5

B4A - 2.5

B4-7,5

B42A-0.5

No. of Samples:

Relinquished By:

Company: Nin

Relinquished By:

Company: Relinquished By:

Company:

B2-N-0.5

B2-N-2.5

B4A - 5

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

CUSTOMER INFORMATION

Fax:

Ninvo & Moore

475 Goddard

(949) 753-7070

Irvine, CA 92618

Dennis Fee

dfee@ninyoandmoore.com

Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067 www.ocalab.com

Sample

Matrix

SS

4620 East Elwood Street, Suite 4

Phoenix, AZ 85040

EAC

Sample Date

4/3/23

Project Name:

EDD Required:

Sampled By:

5

Received By:

Company:

Company:

Received For OCA BY

Received By:

Method of Shipment:

Date: Time:

Date:

Time:

No. of

Containers

PO #:

Project Number:

Address (City / State):

Phone: (480) 736-0960 Fax: (480) 736-0970

211936010

PROJECT INFORMATION

LAUSD 49th Street PFA

Los Angeles, CA

Sample Time

1209

1218

1220

1222 1235

1307

1310 1313 1344

1346 1348 1416

1418

												REQUESTED TURN-AROUND-TIME		
						7471A	7199					Standard: X		
						PA 6010B/7	um by EPA		NIS		8015B	72 Hour:		
Container Type		A 6010B	PA 601	A 8081	4 8082	Title 22 Metals by EPA 60108/7471A	Hexavalent Chromium by EPA 7199	Asbestos by PLM	PAHS by EPA 8270-SIM	A 8260B	by EPA	48 Hour:		
		Lead by EPA 60108	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082					Cs by EP	TPH-g,d,mo by EPA 8015B	24 Hour:		
		Leg	Ars		PC					9	Į.	REMARKS / INSTRUCTIONS		
902	jar											HOLD		
- 1	1		X	E	40		ei i					HOLL		
												HOLD		
												HOLIS		
~												HOLD		
												HOLD		
			\times											
				1.		21						HOLD		
												HOLD		
			X											
											, = :	HOLD		
												HOLD		
	+4 16%					X				X	X			
						\bowtie				$ \forall $	$\stackrel{\frown}{\times}$			
Prese	vative:	1	= Ice	2	= HC	3	= HN	O ₃	4=	H ₂ SO		5 = NaOH 6 = Other		
	Date	:						Matri						
Time:						DW - Drinking Water								
					G	W - G	roun	dwate		AQ - Aqueous				
Date: Time:				V	/W - 1	Waste	ewate		SS - Soil / Solid					
				S	W - St	ormy	vater	OT - Other						

Sample Integrity:

Intact:

On Ice: (Yes / No @

Time:

Analysis Request & (

4620 East Elwood Street, Suite 4

n of Custody Record

4

ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

www.ocalab.com

com

Lab Job No.: 278/5

ANALYSIS REQUEST / PRESERVATION

Page: 4

of 4

Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714)	1) 927 0067	Phoenix, AZ 8		1725 0070												REQUESTED	
CUSTOMER INFORMATION	1) 032-0007		(480) 736-0960 Fax: (480) 736-0970 PROJECT INFORMATION							1A	6					TURN-AROUND-TIME	
		PROJECT INFORMATION								Title 22 Metals by EPA 6010B/7471A	Hexavalent Chromium by EPA 7199					Standard: X	
Company: Ninyo & Moore		Project Name: LAUSD 49th Street PEA								108/	EPA						
Send Report To: Dennis Fee		Project Number: 211936010								A 60	m by		Σ		TPH-g,d,mo by EPA 8015B	72 Hour:	
Email: <u>dfee@ninyoandmoore.com</u>	PO #:		2			8	Arsenic by EPA 6010B	14	2	y EP	min		1S-0.	909	PA 8		
Address: 475 Goddard		City / State):	Los Angeles, (CA		601	PA 6	808	808	als b	Chro	Asbestos by PLM	827	826	by E	48 Hour:	
Irvine, CA 92618	EDD Requ		,			Lead by EPA 6010B	by E	OCPs by EPA 8081A	PCBs by EPA 8082	Met	ent	s by	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	OH.		
Phone: (949) 753-7070 Fax:	Sampled No. of	By: EAC A	4	1 general	1	d by	enic	s by	s by	22	aval	esto	s by	s by	, p'9-	24 Hour:	
Customer Sample IDs	Containers		Sample Time	Sample Matrix	Container Type	Lea	Ars	OCF	PCB	Title	Hex	Asb	PAH	000	TPH	REMARKS / INSTRUCTIONS	
B44-5	5	4/3/23	1420	SS	902/4/9VOS											HOLD	
B14-E-0.5	1	1	1440	1	90z jar		X									100	
B14 - E - 2.5			1441		1											HOLD	
B14-S- 0.5			1445				X									11002	
B14-5-2.5	1	1	1447	1	1											HOLD	
			111	3123													
		F	AC T	1210													
		-															
										Н							
				-		H	+			\vdash					-		
				+		-	-			\dashv			_				
				-		-	\vdash							H			
No. of Samples: 5 Method of Sh	ipment: Hand	delive	v-d		Preservative:	1	1 = Ice	2	= HC	3	= HN	n.	1-	H ₂ SC		5 = NaOH 6 = Other	
Relinquished By:	e: 4/3/23	Received By:			Date		100		. 110			Matri		11250			
Pa I VINIMI I										Sali	ilpie	viatri	х.			DW - Drinking Water	
Company: Nihyo! Moore	ie: 1647	Company:			Time	e;				G	W - 6	roun	dwat	er		AQ - Aqueous	
Relinquished By: Dat	e:	Received By:		e:	2:			WW - Wastewater				er		SS - Soil / Solid			
Tim	ie:				Time			2:									
Company:		Company:								SW - Stormwater						OT - Other	
Relinquished By: Dat		Received For O	all	Time:						Sample Integrity: 3 10 = 3 Intact: On Ice: (Yes) No @					10=3'c 1123		
Company:		Company:	DUANH							IIII	ict.	_	_	On Io	re: Le	15) NO @	

Sample Receipt Report

Received:	04/03/23 16:	Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delivere	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	Project Name:	LAUSD 49th Street P	EA
# Shipping Containers:	1	Project #:	211936010	
Sample Quantity 47 Soil				
Chain of Custody		Complete 🗸	Incomplete	None
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)	: 3	Thermometer ID: #3	Adjusted Temp.:	3
Shipping Intact		Yes 🗸	N/A 🗌	No 🗌
Shipping Custody Se	als Intact	Yes 🗌	N/A 🗹	No 🗌
Samples Intact		Yes 🗸		No 🗌
Sample Custody Sea	ls Intact	Yes 🗌	N/A 🗹	No 🗌
Custody Seals Signe	d & Dated	Yes 🗌	N/A 🗹	No 🗌
Proper Test Containe	ers	Yes 🗸		No 🗌
Proper Test Preserva	ations	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace	Yes 🗌	N/A 🗹	No 🗌
Sample Labels		Complete 🗸	Incomplete	None [
Sample Information N	Matches COC	Yes 🗸	N/A	No 🗌

Ву

On

Client Notified

Orange Coast Analytical, Inc.

4

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27827

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/5/2023

Date Reported: 4/17/2023

Chain of Custody Received:

✓

Analytical Method: 8015B, 8081A, 8082, 8260B, 8270C, 6010B,

7471A,

Mark Noorani, Laboratory Director

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at $^{\circ}$ C, on ice. 2 coolers at 3 and 1 $^{\circ}$ C IR#3 correction =+0 $^{\circ}$ C

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

	Lab Sample	Date	Date	
Client Sample ID	Number	Received	Sampled	Matrix
B34-2.5	27827-001	4/5/2023	4/5/2023	Soil
B34-5	27827-002	4/5/2023	4/5/2023	Soil
B34-10	27827-003	4/5/2023	4/5/2023	Soil
B35-2.5	27827-004	4/5/2023	4/5/2023	Soil
B35-5	27827-005	4/5/2023	4/5/2023	Soil
B35-10	27827-006	4/5/2023	4/5/2023	Soil
B46-0.5	27827-007	4/5/2023	4/5/2023	Soil
B46-2.5	27827-008	4/5/2023	4/5/2023	Soil
B46-5	27827-009	4/5/2023	4/5/2023	Soil
B46-10	27827-010	4/5/2023	4/5/2023	Soil
B46-15	27827-011	4/5/2023	4/5/2023	Soil
B39-0.5	27827-012	4/5/2023	4/5/2023	Soil
B39-2.5	27827-013	4/5/2023	4/5/2023	Soil
B39-5	27827-014	4/5/2023	4/5/2023	Soil
B39-10	27827-015	4/5/2023	4/5/2023	Soil
B39-15	27827-016	4/5/2023	4/5/2023	Soil
B38-0.5	27827-017	4/5/2023	4/5/2023	Soil
B38-2.5	27827-018	4/5/2023	4/5/2023	Soil
B38-5	27827-019	4/5/2023	4/5/2023	Soil
B38-10	27827-020	4/5/2023	4/5/2023	Soil
B38-15	27827-021	4/5/2023	4/5/2023	Soil
B37-0.5	27827-022	4/5/2023	4/5/2023	Soil
B37-2.5	27827-023	4/5/2023	4/5/2023	Soil
B37-5	27827-024	4/5/2023	4/5/2023	Soil
B37-10	27827-025	4/5/2023	4/5/2023	Soil
B37-15	27827-026	4/5/2023	4/5/2023	Soil
B36-0.5	27827-027	4/5/2023	4/5/2023	Soil
B36-2.5	27827-028	4/5/2023	4/5/2023	Soil
B36-5	27827-029	4/5/2023	4/5/2023	Soil
B36-10	27827-030	4/5/2023	4/5/2023	Soil
B43-0.5	27827-031	4/5/2023	4/5/2023	Soil
B43-2.5	27827-032	4/5/2023	4/5/2023	Soil
B43-5	27827-033	4/5/2023	4/5/2023	Soil
B43-10	27827-034	4/5/2023	4/5/2023	Soil
B43-15	27827-035	4/5/2023	4/5/2023	Soil

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

	LAtractable	er der riyaroc	arbons (EF)	4 <i>00 13B)</i>			
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B34-2.5	27827-001	4/5/2023 17:51	4/5/2023 8:00	4/11/2023 14:35	4/13/2023 12:26	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10	Octacosane 132					
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	10-160 %		
B34-2.5	27827-001	4/5/2023 17:51	4/5/2023 8:00	4/11/2023 14:35	4/13/2023 12:26	Soil	
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*		
MROs	<50		Octa	acosane	132		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	10-160 %		
B34-10	27827-003	4/5/2023 17:51	4/5/2023 8:30	4/11/2023 14:35	4/13/2023 13:08	Soil	
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*		
DROs	<10		Octa	acosane	146		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %		
B34-10	27827-003	4/5/2023 17:51	4/5/2023 8:30	4/11/2023 14:35	4/13/2023 13:08	Soil	
ANALYTE	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	acosane	146		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	10-160 %		
B35-2.5	27827-004	4/5/2023	4/5/2023	4/11/2023	4/13/2023	Soil	
		17:51	9:10	14:35	13:51		
ANALYTE	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	acosane	146		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	10-160 %		

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

	LAtractable	r uer riyuroc	arbons (EF)	4 <i>00 13B)</i>			
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B35-2.5	27827-004	4/5/2023 17:51	4/5/2023 9:10	4/11/2023 14:35	4/13/2023 13:51	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50	Octacosane 146					
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	10-160 %		
B35-10	27827-006	4/5/2023 17:51	4/5/2023 9:25	4/11/2023 14:35	4/13/2023 14:33	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	acosane	142		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	10-160 %		
B35-10	27827-006	4/5/2023 17:51	4/5/2023 9:25	4/11/2023 14:35	4/13/2023 14:33	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	acosane	142		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %		
B46-0.5	27827-007	4/5/2023 17:51	4/5/2023 9:58	4/11/2023 14:35	4/13/2023 15:16	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	acosane	140		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	10-160 %		
B46-0.5	27827-007	4/5/2023	4/5/2023	4/11/2023	4/13/2023	Soil	
		17:51	9:58	14:35	15:16		
ANALYTE	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	acosane	140		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	10-160 %		

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

	LAtractable	er der riyaroc	arbons (EF)	4 <i>00 13B)</i>			
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B46-2.5	27827-008	4/5/2023 17:51	4/5/2023 10:00	4/11/2023 14:35	4/13/2023 15:59	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10	Octacosane 131					
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	l0-160 %		
B46-2.5	27827-008	4/5/2023 17:51	4/5/2023 10:00	4/11/2023 14:35	4/13/2023 15:59	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	cosane	131		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	l0-160 %		
B46-5	27827-009	4/5/2023 17:51	4/5/2023 10:13	4/11/2023 14:35	4/13/2023 16:42	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	cosane	132		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	l0-160 %		
B46-5	27827-009	4/5/2023 17:51	4/5/2023 10:13	4/11/2023 14:35	4/13/2023 16:42	Soil	
ANALYTE	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	cosane	132		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	l0-160 %		
B46-10	27827-010	4/5/2023	4/5/2023	4/11/2023	4/13/2023	Soil	
		17:51	10:15	14:35	17:25		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	cosane	150		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	0-160 %		

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B46-10	27827-010	4/5/2023 17:51	4/5/2023 10:15	4/11/2023 14:35	4/13/2023 17:25	Soil
ANALYTE	mg/kg		Surr	ogate:	% RC*	
MROs	<50					
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B39-0.5	27827-012	4/5/2023 17:51	4/5/2023 10:49	4/11/2023 14:35	4/14/2023 18:21	Soil
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*	
DROs	<10		Octa	cosane	121	
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	40-160 %	
B39-0.5	27827-012	4/5/2023 17:51	4/5/2023 10:49	4/11/2023 14:35	4/14/2023 18:21	Soil
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*	
MROs	<50		Octa	cosane	121	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B39-2.5	27827-013	4/5/2023 17:51	4/5/2023 10:52	4/11/2023 14:35	4/14/2023 19:04	Soil
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*	
DROs	<10		Octa	cosane	128	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B39-2.5	27827-013	4/5/2023 17:51	4/5/2023 10:52	4/11/2023 14:35	4/14/2023 19:04	Soil
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*	
MROs	<50		Octa	acosane	128	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	10-160 %	

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

				,		
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B39-5	27827-014	4/5/2023 17:51	4/5/2023 11:00	4/11/2023 14:35	4/14/2023 19:47	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
DROs	12					
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	40-160 %	
B39-5	27827-014	4/5/2023 17:51	4/5/2023 11:00	4/11/2023 14:35	4/14/2023 19:47	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
MROs	<50		Octa	acosane	130	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	10-160 %	
B39-10	27827-015	4/5/2023 17:51	4/5/2023 11:02	4/11/2023 14:35	4/14/2023 20:29	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
DROs	<10		Octa	acosane	147	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B39-10	27827-015	4/5/2023 17:51	4/5/2023 11:02	4/11/2023 14:35	4/14/2023 20:29	Soil
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*	
MROs	<50		Octa	acosane	147	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B39-15	27827-016	4/5/2023 17:51	4/5/2023 11:05	4/11/2023 14:35	4/14/2023 21:11	Soil
ANALYTE	mg/kg		Surr	ogate:	% RC*	
DROs	<10		Octa	acosane	128	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	10-160 %	

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

				,		
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B39-15	27827-016	4/5/2023 17:51	4/5/2023 11:05	4/11/2023 14:35	4/14/2023 21:11	Soil
ANALYTE	mg/kg		Surr	ogate:	% RC*	
MROs	<50					
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B38-0.5	27827-017	4/5/2023 17:51	4/5/2023 12:37	4/11/2023 14:35	4/14/2023 21:53	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
DROs	<10		Octa	acosane	130	
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	40-160 %	
B38-0.5	27827-017	4/5/2023 17:51	4/5/2023 12:37	4/11/2023 14:35	4/14/2023 21:53	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
MROs <u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None	<50			acosane c Recovery: 4	130 40-160 %	
B38-2.5	27827-018	4/5/2023 17:51	4/5/2023 12:39	4/11/2023 14:35	4/14/2023 22:35	Soil
ANALYTE	mg/kg		<u>Surr</u>	ogate:	% RC*	
DROs	<10		Octa	acosane	171	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	40-160 %	
B38-2.5	27827-018	4/5/2023 17:51	4/5/2023 12:39	4/11/2023 14:35	4/14/2023 22:35	Soil
ANALYTE	mg/kg		Surr	ogate:	% RC*	
MROs	<50		Octa	acosane	171	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	10-160 %	

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

	LAtractable	r uer riyuroc	aibolis (EF A	4 <i>00 13B)</i>			
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B38-5	27827-019	4/5/2023 17:51	4/5/2023 12:53	4/11/2023 14:35	4/14/2023 23:17	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10	Octacosane 187					
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	10-160 %		
B38-5	27827-019	4/5/2023 17:51	4/5/2023 12:53	4/11/2023 14:35	4/14/2023 23:17	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	cosane	187		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	10-160 %		
B38-10	27827-020	4/5/2023 17:51	4/5/2023 12:55	4/11/2023 14:35	4/14/2023 23:59	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	cosane	159		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %		
B38-10	27827-020	4/5/2023 17:51	4/5/2023 12:55	4/11/2023 14:35	4/14/2023 23:59	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	cosane	159		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	10-160 %		
B38-15	27827-021	4/5/2023	4/5/2023	4/11/2023	4/15/2023	Soil	
		17:51	12:58	14:35	0:41		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	cosane	170		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	10-160 %		

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B38-15	27827-021	4/5/2023	4/5/2023	4/11/2023	4/15/2023	Soil	
		17:51	12:58	14:35	0:41		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50	Octacosane 170					
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	40-160 %		
B37-0.5	27827-022	4/5/2023 17:51	4/5/2023 13:26	4/11/2023 14:35	4/15/2023 1:24	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	icosane	182		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	40-160 %		
B37-0.5	27827-022	4/5/2023	4/5/2023	4/11/2023	4/15/2023	Soil	
		17:51	13:26	14:35	1:24		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	cosane	182		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	40-160 %		
B37-2.5	27827-023	4/5/2023	4/5/2023	4/11/2023	4/15/2023	Soil	
		17:51	13:32	14:35	2:06		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	icosane	191		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	40-160 %		
B37-2.5	27827-023	4/5/2023	4/5/2023	4/11/2023	4/15/2023	Soil	
		17:51	13:32	14:35	2:06		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	icosane	191		
Dilution Factor: 1			* Ac	c Recovery: 4	40-160 %		
Data Qualifiers: S1,							

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

	LXII actable	r uer riyuroc	arbons (Er A	1 00 130)			
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B37-5	27827-024	4/5/2023 17:51	4/5/2023 13:42	4/11/2023 16:37	4/15/2023 6:24	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10	Octacosane 126					
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	0-160 %		
B37-5	27827-024	4/5/2023 17:51	4/5/2023 13:42	4/11/2023 16:37	4/15/2023 6:24	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	cosane	126		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	0-160 %		
B37-10	27827-025	4/5/2023 17:51	4/5/2023 13:44	4/11/2023 16:37	4/15/2023 7:08	Soil	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	cosane	158		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	l0-160 %		
B37-10	27827-025	4/5/2023 17:51	4/5/2023 13:44	4/11/2023 16:37	4/15/2023 7:08	Soil	
ANALYTE	mg/kg		Surr	ogate:	% RC*		
MROs	<50		Octa	cosane	158		
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	0-160 %		
B37-15	27827-026	4/5/2023	4/5/2023	4/11/2023	4/15/2023	Soil	
		17:51	13:46	16:37	7:51		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*		
DROs	<10		Octa	cosane	164		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	0-160 %		

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Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B37-15	27827-026	4/5/2023 17:51	4/5/2023 13:46	4/11/2023 16:37	4/15/2023 7:51	Soil
ANALYTE	mg/kg		Surr	ogate:	% RC*	
MROs	<50					
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	40-160 %	
B36-0.5	27827-027	4/5/2023 17:51	4/5/2023 14:20	4/11/2023 16:37	4/15/2023 8:34	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
DROs	18		Octa	cosane	112	
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	40-160 %	
B36-0.5	27827-027	4/5/2023 17:51	4/5/2023 14:20	4/11/2023 16:37	4/15/2023 8:34	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
MROs	78		Octa	cosane	112	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B36-2.5	27827-028	4/5/2023 17:51	4/5/2023 14:23	4/11/2023 16:37	4/15/2023 9:17	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
DROs	<10		Octa	cosane	118	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B36-2.5	27827-028	4/5/2023 17:51	4/5/2023 14:23	4/11/2023 16:37	4/15/2023 9:17	Soil
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*	
MROs	<50		Octa	cosane	118	
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	10-160 %	

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	LAtractable	: r uer riyuroc	arbons (EF)	1 00 130)				
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix		
B43-0.5	27827-031	4/5/2023 17:51	4/5/2023 15:15	4/11/2023 16:37	4/15/2023 9:58	Soil		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*			
DROs	<10		Octa	icosane	122			
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	0-160 %			
B43-0.5	27827-031	4/5/2023 17:51	4/5/2023 15:15	4/11/2023 16:37	4/15/2023 9:58	Soil		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*			
MROs	<50	Octacosane 122						
Dilution Factor: 1 Data Qualifiers: None		* Acc Recovery: 40-160 %						
B43-2.5	27827-032	4/5/2023 17:51	4/5/2023 15:20	4/11/2023 16:37	4/15/2023 10:50	Soil		
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*			
DROs	<10		Octa	icosane	161			
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	l0-160 %			
B43-2.5	27827-032	4/5/2023	4/5/2023	4/11/2023	4/15/2023	Soil		
		17:51	15:20	16:37	10:50			
<u>ANALYTE</u>	<u>mg/kg</u>		<u>Surr</u>	ogate:	<u>% RC*</u>			
MROs	<50		Octa	icosane	161			
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	l0-160 %			
B43-5	27827-033	4/5/2023	4/5/2023	4/11/2023	4/15/2023	Soil		
		17:51	15:28	16:37	11:33			
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*			
DROs	<10		Octa	icosane	180			
Dilution Factor: 1 Data Qualifiers: S1,			* Ace	c Recovery: 4	0-160 %			

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Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B43-5	27827-033	4/5/2023 17:51	4/5/2023 15:28	4/11/2023 16:37	4/15/2023 11:33	Soil
ANALYTE	mg/kg		Surr	ogate:	% RC*	
MROs	<50		Octa	acosane	180	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> S1,			* Ac	c Recovery: 4	40-160 %	
B43-10	27827-034	4/5/2023 17:51	4/5/2023 15:30	4/11/2023 16:37	4/15/2023 14:22	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
DROs	<10		Octa	acosane	154	
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	40-160 %	
B43-10	27827-034	4/5/2023 17:51	4/5/2023 15:30	4/11/2023 16:37	4/15/2023 14:22	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
MROs	<50		Octa	acosane	154	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B43-15	27827-035	4/5/2023 17:51	4/5/2023 15:35	4/11/2023 16:37	4/15/2023 15:05	Soil
<u>ANALYTE</u>	mg/kg		<u>Surr</u>	ogate:	% RC*	
DROs	<10		Octa	acosane	156	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Ac	c Recovery: 4	40-160 %	
B43-15	27827-035	4/5/2023 17:51	4/5/2023 15:35	4/11/2023 16:37	4/15/2023 15:05	Soil
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*	
MROs	<50		Octa	acosane	156	
Dilution Factor: 1 Data Qualifiers: None			* Ac	c Recovery: 4	10-160 %	

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			-	-		
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBVV0411231			4/11/2023 14:35	4/13/2023 10:18	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	<10		Octa	cosane	115	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
Method Blank	MBVV0411231			4/11/2023 14:35	4/13/2023 10:18	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	<50		Octa	cosane	115	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery: 4	40-160 %	
Method Blank	MBVV0411232			4/11/2023 16:37	4/15/2023 4:15	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	<10		Octa	cosane	119	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
Method Blank	MBVV0411232			4/11/2023 16:37	4/15/2023 4:15	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	<50		Octa	cosane	119	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	

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Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B34-2.5	27827-001	4/5/2023 17:51	4/5/2023 8:00	4/5/2023 8:00	4/6/2023 17:12	Soil	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>		
GROs ¹	<0.20	.20 $α-α-α$ -Trifluorotoluene 91					
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %		
B34-10	27827-003	4/5/2023 17:51	4/5/2023 8:30	4/5/2023 8:30	4/6/2023 17:33	Soil	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>		
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 86		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %		
B35-2.5	27827-004	4/5/2023	4/5/2023	4/5/2023	4/6/2023	Soil	
		17:51	9:10	9:10	17:54		
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>		
GROs ¹	<0.20		α-α-	α -Trifluorotolu	iene 92		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %		
B35-10	27827-006	4/5/2023	4/5/2023	4/5/2023	4/6/2023	Soil	
		17:51	9:25	9:25	18:15		
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>		
GROs ¹	<0.20		α-α-	α -Trifluorotolu	iene 93		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %		
B46-0.5	27827-007	4/5/2023 17:51	4/5/2023 9:58	4/5/2023 9:58	4/10/2023 13:07	Soil	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>		
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 98		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %		

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Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B46-2.5	27827-008	4/5/2023 17:51	4/5/2023 10:00	4/5/2023 10:00	4/10/2023 13:28	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	iene 91	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B46-5	27827-009	4/5/2023 17:51	4/5/2023 10:13	4/5/2023 10:13	4/10/2023 13:49	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	iene 92	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B46-10	27827-010	4/5/2023 17:51	4/5/2023 10:15	4/5/2023 10:15	4/10/2023 14:10	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
GROs ¹	<0.20			α-Trifluorotolu		
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None					overy: 32-153 %	
B39-0.5	27827-012	4/5/2023 17:51	4/5/2023 10:49	4/5/2023 10:49	4/10/2023 14:30	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	iene 78	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B39-2.5	27827-013	4/5/2023 17:51	4/5/2023 10:52	4/5/2023 10:52	4/10/2023 14:51	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-0	α-Trifluorotolu	iene 80	

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Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B39-5	27827-014	4/5/2023 17:51	4/5/2023 11:00	4/5/2023 11:00	4/10/2023 15:12	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 101	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B39-10	27827-015	4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
ANIALNEE		17:51	11:02	11:02	15:33	
ANALYTE	mg/kg			ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α - α - α	α-Trifluorotolu	iene 87	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B39-15	27827-016	4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	11:05	11:05	15:54	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 94	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B38-0.5	27827-017	4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	12:37	12:37	16:14	
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 84	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B38-2.5	27827-018	4/5/2023 17:51	4/5/2023 12:39	4/5/2023 12:39	4/10/2023 17:01	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 105	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	

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Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B38-5	27827-019	4/5/2023 17:51	4/5/2023 12:53	4/5/2023 12:53	4/10/2023 17:22	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	iene 99	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B38-10	27827-020	4/5/2023 17:51	4/5/2023 12:55	4/5/2023 12:55	4/10/2023 17:42	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	iene 69	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B38-15	27827-021	4/5/2023 17:51	4/5/2023 12:58	4/5/2023 12:58	4/10/2023 18:03	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-0	α-Trifluorotolu	iene 102	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B37-0.5	27827-022	4/5/2023 17:51	4/5/2023 13:26	4/5/2023 13:26	4/10/2023 18:23	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-0	α-Trifluorotolu	iene 96	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B37-2.5	27827-023	4/5/2023 17:51	4/5/2023 13:32	4/5/2023 13:32	4/10/2023 18:44	Soil
		11.01				
<u>ANALYTE</u>	mg/kg	17.01	Surro	ogate:	<u>% RC*</u>	
ANALYTE GROs ¹	mg/kg <0.20	17.01				

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Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B37-5	27827-024	4/5/2023 17:51	4/5/2023 13:42	4/5/2023 13:42	4/10/2023 19:05	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolι	iene 66	
Dilution Factor: 1			* Acc	ceptable Reco	overy: 32-153 %	
Data Qualifiers: None						
B37-10	27827-025	4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	13:44	13:44	19:25	
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
GROs ¹	<0.20		α - α - α	α-Trifluorotolu	iene 86	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
B37-15	27827-026	4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	13:46	13:46	19:46	
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
GROs ¹	<0.20		α-α-ο	α-Trifluorotolu	iene 89	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Rec	overy: 32-153 %	
B36-0.5	27827-027	4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	14:20	14:20	20:07	
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	uene 87	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Rec	overy: 32-153 %	
B36-2.5	27827-028	4/5/2023 17:51	4/5/2023 14:23	4/5/2023 14:23	4/11/2023 13:49	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 89	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

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Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix		
B43-0.5	27827-031	4/5/2023 17:51	4/5/2023 15:15	4/5/2023 15:15	4/11/2023 14:10	Soil		
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>			
GROs ¹	<0.20	α - α - α -Trifluorotoluene 92						
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %			
B43-2.5	27827-032	4/5/2023 17:51	4/5/2023 15:20	4/5/2023 15:20	4/11/2023 14:31	Soil		
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>			
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	iene 85			
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %			
B43-5	27827-033	4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil		
		17:51	15:28	15:28	14:52			
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>			
GROs ¹	<0.20		α - α - α	α-Trifluorotolu	iene 62			
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %			
B43-10	27827-034	4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil		
		17:51	15:30	15:30	15:13			
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>			
GROs ¹	<0.20		α-α-α	α -Trifluorotolu	iene 88			
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %			
B43-15	27827-035	4/5/2023 17:51	4/5/2023 15:35	4/5/2023 15:35	4/11/2023 15:34	Soil		
<u>ANALYTE</u>	mg/kg		Surro	ogate:	<u>% RC*</u>			
GROs ¹	<0.20		α-α-α	α-Trifluorotolu	iene 75			
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %			

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBLY0406231			4/6/2023 13:00	4/6/2023 13:28	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	% RC*	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	ene 90	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
Method Blank	MBLY0410231			4/10/2023 9:30	4/10/2023 10:37	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α -Trifluorotolu	ene 89	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	
Method Blank	MBLY0411231			4/11/2023 9:30	4/11/2023 10:44	Soil
<u>ANALYTE</u>	mg/kg		Surre	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	ene 93	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

		•		•	•			
Client Sample ID		Sample umber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B34-2.5	278	327-001	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil	
			17:51	8:00	11:15	14:02		
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% R</u> (<u>C*</u>	
Aldrin	309-00-2	<8.0			Docachlorobin	honyl 96		
alpha-BHC	319-84-6	<20			Decachlorobiphenyl 86			
beta-BHC	319-85-7	<20			* Acceptable Recovery: 35-130 %			
gamma-BHC (Lindane)	58-89-9	<20						
delta-BHC	319-86-8	<40						
Chlordane	57-74-9	<120			Dilution Factor	<u>:</u> 4		
4,4'-DDD	72-54-8	<40			Data Qualifiers: D1,			
4,4'-DDE	72-55-9	<20			Data Qualifore	<u>, , , , , , , , , , , , , , , , , , , </u>		
4,4'-DDT	50-29-3	<40						
Dieldrin	60-57-1	<8.0						
Endosulfan I	959-98-8	<40						
Endosulfan II	33213-65-9	<20						
Endosulfan sulfate	1031-07-8	<40						
Endrin	72-20-8	<40						
Endrin aldehyde	7421-93-4	<40						
Endrin ketone	53494-70-5	<20						
Heptachlor	76-44-8	<8.0						
Heptachlor epoxide	1024-57-3	<20						
Methoxychlor	72-43-5	<40						
Toxaphene	8001-35-2	<160						

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID		Sample ımber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix	
B34-10	278	327-003	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil	
			17:51	8:30	11:15	13:47		
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% RC</u>	*	
Aldrin	309-00-2	<2.0			Docachlorobin	henyl 91		
alpha-BHC	319-84-6	< 5.0			Decachlorobiphenyl 91			
beta-BHC	319-85-7	< 5.0			* Acceptable Recovery: 35-130 %			
gamma-BHC (Lindane)	58-89-9	< 5.0			Acceptable Recovery. 35 136 76			
delta-BHC	319-86-8	<10						
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1		
4,4'-DDD	72-54-8	<10			Data Qualifiers: None			
4,4'-DDE	72-55-9	<5.0			Data Qualifore	<u></u> 110110		
4,4'-DDT	50-29-3	<10						
Dieldrin	60-57-1	<2.0						
Endosulfan I	959-98-8	<10						
Endosulfan II	33213-65-9	<5.0						
Endosulfan sulfate	1031-07-8	<10						
Endrin	72-20-8	<10						
Endrin aldehyde	7421-93-4	<10						
Endrin ketone	53494-70-5	<5.0						
Heptachlor	76-44-8	<2.0						
Heptachlor epoxide	1024-57-3	<5.0						
Methoxychlor	72-43-5	<10						
Toxaphene	8001-35-2	<40						

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Project #: 211936010

Client Sample ID		Sample umber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B35-2.5	278	327-004	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	9:10	11:15	14:16	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% RC</u>	*
Aldrin	309-00-2	<2.0			Decachlorobip	henyl 90	
alpha-BHC	319-84-6	< 5.0			Decacillolopip	nenyi 90	
beta-BHC	319-85-7	< 5.0			* Acceptable Recovery: 35-130 %		
gamma-BHC (Lindane)	58-89-9	<5.0					
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None		
4,4'-DDD	72-54-8	<10					
4,4'-DDE	72-55-9	< 5.0				<u></u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	< 5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

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Project #: 211936010

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Client Sample ID		Sample umber	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B35-10	278	327-006	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	9:25	11:15	14:31	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% RC</u>	*
Aldrin	309-00-2	<2.0			Decachlorobip	henyl 84	
alpha-BHC	319-84-6	< 5.0			Decacrilorobip	nenyi o4	
beta-BHC	319-85-7	< 5.0			* Acceptable Recovery: 35-130 %		
gamma-BHC (Lindane)	58-89-9	<5.0					
delta-BHC	319-86-8	<10					
Chlordane	57-74-9	<30			<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None		
4,4'-DDD	72-54-8	<10					
4,4'-DDE	72-55-9	< 5.0				<u></u>	
4,4'-DDT	50-29-3	<10					
Dieldrin	60-57-1	<2.0					
Endosulfan I	959-98-8	<10					
Endosulfan II	33213-65-9	< 5.0					
Endosulfan sulfate	1031-07-8	<10					
Endrin	72-20-8	<10					
Endrin aldehyde	7421-93-4	<10					
Endrin ketone	53494-70-5	<5.0					
Heptachlor	76-44-8	<2.0					
Heptachlor epoxide	1024-57-3	<5.0					
Methoxychlor	72-43-5	<10					
Toxaphene	8001-35-2	<40					

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Client Sample ID		Sample Imber	Date Received	Date Sampled	Date Extracted	Date Analyze		atrix
Method Blank	MBBL	.0406231			4/6/2023	4/7/202	23 5	Soil
					11:15	11:07	,	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>9</u>	<u> 6 RC*</u>	
Aldrin	309-00-2	<2.0			Dagaablarahin	hand	0.2	
alpha-BHC	319-84-6	<5.0			Decachlorobip	пепуі	83	
beta-BHC	319-85-7	<5.0			* Acceptable Recovery: 35-130 %			
gamma-BHC (Lindane)	58-89-9	<5.0						
delta-BHC	319-86-8	<10						
Chlordane	57-74-9	<30			Dilution Factor	<u>:</u> 1		
4,4'-DDD	72-54-8	<10			Data Qualifiers	: None		
4,4'-DDE	72-55-9	<5.0			Data Qualiford	<u></u> 110110		
4,4'-DDT	50-29-3	<10						
Dieldrin	60-57-1	<2.0						
Endosulfan I	959-98-8	<10						
Endosulfan II	33213-65-9	<5.0						
Endosulfan sulfate	1031-07-8	<10						
Endrin	72-20-8	<10						
Endrin aldehyde	7421-93-4	<10						
Endrin ketone	53494-70-5	<5.0						
Heptachlor	76-44-8	<2.0						
Heptachlor epoxide	1024-57-3	<5.0						
Methoxychlor	72-43-5	<10						
Toxaphene	8001-35-2	<40						

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Client Sample	ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B39-0.5		27827-012	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	10:49	15:25	18:24	
<u>ANALYTE</u>	CAS#	<u>µg/kg</u>			Surrogate	<u>ə:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachio	robiphenyl	79
PCB-1221	11104-28-2	<25					0= 100 0/
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25			Data Que	11010	
PCB-1260	11096-82-5	<25					
B39-2.5		27827-013	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	10:52	15:25	18:39	
<u>ANALYTE</u>	CAS#	<u>µg/kg</u>			Surrogate	<u>ə:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachic	robiphenyl	84
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			·	alifiers: None	
PCB-1254	11097-69-1	<25			Data Que	THORIC	
PCB-1260	11096-82-5	<25					
B39-5		27827-014	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	11:00	15:25	18:10	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	<u>% RC*</u>
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	80
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25				alifiers: None	
PCB-1254	11097-69-1	<25			<u>Data Que</u>		
PCB-1260	11096-82-5	<25					

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Client Sample I	ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B39-10		27827-015	4/5/2023 17:51	4/5/2023 11:02	4/6/2023 15:25	4/7/2023 18:53	Soil
ANALYTE	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	83
PCB-1221	11104-28-2	<25			* A 2222tc	able Recovery:	25 420 0/
PCB-1232	11141-16-5	<25			Accepta	ible Recovery.	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
B39-15		27827-016	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	11:05	15:25	19:08	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	86
PCB-1221	11104-28-2	<25			* ^ 4 -		05 400 0/
PCB-1232	11141-16-5	<25			Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
B38-0.5		27827-017	4/5/2023 17:51	4/5/2023 12:37	4/6/2023 15:25	4/7/2023 19:23	Soil
<u>ANALYTE</u>	CAS#	<u>μg/kg</u>			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	85
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
DOD 4040	12672-29-6	<25				alifiers: None	
PCB-1248							
PCB-1248 PCB-1254	11097-69-1	<25			<u>Data Qua</u>	illiers. None	

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Client Sample	ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B38-2.5		27827-018	4/5/2023 17:51	4/5/2023 12:39	4/6/2023 15:25	4/7/2023 19:37	Soil
			17.51	12.39			
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	<u>% RC*</u>
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	84
PCB-1221	11104-28-2	<25					05 400 0/
PCB-1232	11141-16-5	<25			^ Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25			<u> </u>		
PCB-1260	11096-82-5	<25					
B38-5		27827-019	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	12:53	15:25	19:52	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	83
PCB-1221	11104-28-2	<25					05 400 0/
PCB-1232	11141-16-5	<25			^ Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
B38-10		27827-020	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	12:55	15:25	20:06	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	<u>% RC*</u>
PCB-1016	12674-11-2	<25			Decachic	robiphenyl	126
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25				alifiers: None	
PCB-1254	11097-69-1	<25			Data Que		
PCB-1260	11096-82-5	<25					

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Client Sample	ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B38-15		27827-021	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	12:58	15:25	20:21	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachic	robiphenyl	50
PCB-1221	11104-28-2	<25					05 400 0/
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25			Data Que	11010	
PCB-1260	11096-82-5	<25					
B37-0.5		27827-022	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	13:26	15:25	20:36	
<u>ANALYTE</u>	CAS#	<u>µg/kg</u>			Surrogate	<u>ə:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	90
PCB-1221	11104-28-2	<25					05 400 0/
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25			Data Que	11010	
PCB-1260	11096-82-5	<25					
B37-2.5		27827-023	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	13:32	15:25	20:50	
<u>ANALYTE</u>	<u>CAS #</u>	<u>µg/kg</u>			Surrogate	<u>ə:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	83
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25				alifiers: None	
PCB-1254	11097-69-1	<25			<u>Data Que</u>	AIIICIO.	
PCB-1260	11096-82-5	<25					

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

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Client Sample	ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B37-5		27827-024	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	13:42	15:25	21:05	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	85
PCB-1221	11104-28-2	<25					0= 400.07
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			·	alifiers: None	
PCB-1254	11097-69-1	<25			Data Que	THORIC	
PCB-1260	11096-82-5	<25					
B37-10		27827-025	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	13:44	15:25	21:20	
<u>ANALYTE</u>	CAS#	<u>ug/kg</u>			Surrogate	<u>ə:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	90
PCB-1221	11104-28-2	<25			* ^		05 400 0/
PCB-1232	11141-16-5	<25			" Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
B37-15		27827-026	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	13:46	15:25	21:34	
<u>ANALYTE</u>	CAS#	<u>ug/kg</u>			Surrogate	<u>ə:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	89
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25				alifiers: None	
PCB-1254	11097-69-1	<25			<u>Data Que</u>	AIIICIO.	
PCB-1260	11096-82-5	<25					

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

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Client Sample ID)	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B43-0.5		27827-031	4/5/2023 17:51	4/5/2023 15:15	4/6/2023 15:25	4/7/2023 22:18	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachio	robiphenyl	75
PCB-1221	11104-28-2	<25					0= 400.07
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25			<u>Data Que</u>	11010	
PCB-1260	11096-82-5	<25					
B43-2.5		27827-032	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	15:20	15:25	22:32	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate	<u>e:</u>	<u>% RC*</u>
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	90
PCB-1221	11104-28-2	<25			* ^	-bl- D	05 400 0/
PCB-1232	11141-16-5	<25			Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	alifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
B43-5		27827-033	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	15:28	15:25	22:47	
<u>ANALYTE</u>	CAS#	µg/kg			Surrogate	<u>e:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	77
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	able Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25				alifiers: None	
PCB-1254	11097-69-1	<25			<u>Data Que</u>	<u></u>	
PCB-1260	11096-82-5	<25					

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

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Client Sample II)	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B43-10		27827-034	4/5/2023 17:51	4/5/2023 15:30	4/6/2023 15:25	4/7/2023 23:01	Soil
ANALYTE	CAS#	μg/kg			Surrogate	<u>):</u>	% RC*
PCB-1016	12674-11-2				Decachlo	robiphenyl	92
PCB-1221	11104-28-2	<25			* A 2222tc	ble Recovery:	25 120 0/
PCB-1232	11141-16-5	<25			Accepta	ible Recovery.	33-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	lifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
B43-15		27827-035	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
			17:51	15:35	15:25	23:16	
<u>ANALYTE</u>	CAS#	<u>μg/kg</u>			Surrogate	<u>ə:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	81
PCB-1221	11104-28-2	<25			* ^ 4 -		05 400 0/
PCB-1232	11141-16-5	<25			" Accepta	ble Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
PCB-1248	12672-29-6	<25			Data Qua	lifiers: None	
PCB-1254	11097-69-1	<25					
PCB-1260	11096-82-5	<25					
Method Blank		MBVV0406231			4/6/2023 15:25	4/7/2023 16:57	Soil
<u>ANALYTE</u>	CAS#	<u>μg/kg</u>			Surrogate	<u>:</u>	% RC*
PCB-1016	12674-11-2	<25			Decachlo	robiphenyl	87
PCB-1221	11104-28-2	<25					
PCB-1232	11141-16-5	<25			* Accepta	ble Recovery:	35-130 %
PCB-1242	53469-21-9	<25			Dilution F	actor: 1	
	12672-29-6	<25					
PCB-1248					Data Ous	ilifiers: None	
PCB-1248 PCB-1254 PCB-1260	11097-69-1 11096-82-5	<25 <25			Data Qua	<u>llifiers:</u> None	

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B34-2.5	27827-00	1 4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	8:00	8:00	20:23	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethene		127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
		ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	90	65-130 %		ifiers: None		
J			<u> </u>	110110		
Toluene-d8:	85	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B34-10	27827-003	3 4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	8:30	8:30	20:43	
ANALYTE	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	93	65-130 %	Data Qual	ifiers: None		
Toluene-d8:	90	58-130 %				
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Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B35-2.5	27827-004	4 4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	9:10	9:10	21:04	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	ner (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	iene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Ac	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	93	65-130 %		lifiers: None		
Toluene-d8:	85	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Samp Number	le Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B35-10	27827-00	6 4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	9:25	9:25	21:25	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	ner (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	iene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:		ceptable % RC	Dilution Fa	actor: 1		
Surrogate: Dibromofluoromethane:						
•	% RC Ac	ceptable % RC 65-130 % 58-130 %		actor: 1 lifiers: None		

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sampl Number	e Date Received	Date d Sampled	Date Extracted	Date Analyzed	Matrix
B46-2.5	27827-00	8 4/5/2023	3 4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	10:00	10:00	21:45	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dich	loropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	ner (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl et	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	iene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetracl	hloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetracl	hloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	iene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroethane		79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	Ibenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	Ibenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylene	s	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Ac	ceptable % R0	Dilution F	actor: 1		
Dibromofluoromethane:	92	65-130 %	Data Qua	lifiers: None		
Toluene-d8:	86	58-130 %				
4-Bromofluorobenzene:	85	40-135 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Samp Number	le Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B46-5	27827-00	9 4/5/2023	4/5/2023	4/5/2023	4/10/2023	Soil
		17:51	10:13	10:13	22:05	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	ner (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	iene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
				ootori 1		
Surrogate:	<u>% RC</u> <u>Ac</u>	ceptable % RC	Dilution Fa	<u>actor.</u> 1		
Surrogate: Dibromofluoromethane:	<u>% RC</u> <u>Ac</u> 92					
		ceptable % RC 65-130 % 58-130 %		lifiers: None		

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B46-10	27827-010	4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	10:15	10:15	17:41	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	, ,	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	95	65-130 %		ifiers: None		
				110110		
Toluene-d8:	84	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B39-2.5	27827-013	3 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	10:52	10:52	18:01	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	95	65-130 %		ifiers: None		
	87	58-130 %	<u> </u>			
Toluene-d8:	01	30-13U %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

	Voiatii	e Organics by	GC/N/3 (LFA 0	2000)		
Client Sample ID	Lab Sampl Number	le Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B39-5	27827-01	4 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	11:00	11:00	18:21	
ANALYTE	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e		1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzer	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroe	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroe	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Ac	ceptable % RC	Dilution Fa	actor: 1		
Surrogate:	<u> 70 110 </u>					
-	94		Data Qual	ifiers: None		
Surrogate: Dibromofluoromethane: Toluene-d8:		65-130 % 58-130 %	Data Qual	ifiers: None		

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

		· · · · · · · · · · · · · · · · · ·		,		
Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B39-10	27827-01	5 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	11:02	11:02	18:41	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethene		127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
		ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	92	65-130 %		ifiers: None		
	85		<u> </u>	5.5.		
Toluene-d8:	ชอ	58-130 %				

Lab Reference # NAM 27827

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B39-15	27827-016	6 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	11:05	11:05	19:01	
ANALYTE	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	96	65-130 %	Data Qual	ifiers: None		
Toluene-d8:	88	58-130 %				
4-Bromofluorobenzene:	81	40-135 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B38-2.5	27827-018	3 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	12:39	12:39	19:21	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	6	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	96	65-130 %		ifiers: None		
Toluene-d8:	85	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B38-5	27827-019	9 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	12:53	12:53	19:42	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	98	65-130 %		ifiers: None		
Toluene-d8:	91		<u> </u>			
roiuerie-do.	91	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B38-10	27827-020	4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	12:55	12:55	20:03	
ANALYTE	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	, ,	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	e	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	93	65-130 %		ifiers: None		
Toluene-d8:	84					
rolucite-do.	04	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B38-15	27827-021	1 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	12:58	12:58	20:23	
ANALYTE	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	96	65-130 %	<u>Data</u> Qual	ifiers: None		
Toluene-d8:	88					
rolacile ac.	00	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B37-2.5	27827-023	3 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	13:32	13:32	20:42	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroethane		79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	e	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Ac	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	99	65-130 %		ifiers: None		
Toluene-d8:	88	58-130 %	<u> </u>			

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	e Date Received	Date d Sampled	Date Extracted	Date Analyzed	Matrix
B37-5	27827-024	4 4/5/2023	3 4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	13:42	13:42	21:02	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dich	loropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	ner (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl et	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	iene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ene	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetracl	hloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetracl	hloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	iene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroethane		79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene		79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	Ibenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylene	s	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Ac	<u>ceptable % R0</u>	Dilution F	actor: 1		
Dibromofluoromethane:	93	65-130 %	Data Qua	lifiers: None		
Toluene-d8:	82	58-130 %				
4-Bromofluorobenzene:	74	40-135 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B37-10	27827-025	5 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	13:44	13:44	21:21	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	, ,	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	92	65-130 %	<u>Data</u> Qual	ifiers: None		
Toluene-d8:	82					
roluerie-do.	02	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	e Date Received	Date d Sampled	Date Extracted	Date Analyzed	Matrix
B37-15	27827-026	6 4/5/2023	3 4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	13:46	13:46	21:41	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	93	65-130 %	<u>D</u> ata Qual	ifiers: None		
Toluene-d8:	83	58-130 %				
4-Bromofluorobenzene:	76	40-135 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sampl Number	e Date Received	Date d Sampled	Date Extracted	Date Analyzed	Matrix
B36-0.5	27827-02	7 4/5/2023	3 4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	14:20	14:20	22:01	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dich	loropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	ner (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl et	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenz	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	iene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ene	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrac	hloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrac	hloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	iene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloroethane		79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene		79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	Ibenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	Ibenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylene	s	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Ac	ceptable % R0	Dilution F	actor: 1		
Dibromofluoromethane:	95	65-130 %	Data Qua	lifiers: None		
Toluene-d8:	86	58-130 %				
4-Bromofluorobenzene:	83	40-135 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B36-2.5	27827-028	3 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	14:23	14:23	22:21	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE	-	CAS #	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	, ,	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu		99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl		1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo		75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach		79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth		127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorobenzene		87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorobenzene		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroethane		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro		79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen		79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy		95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy		108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5	•			
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:		ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	94	65-130 %	-	lifiers: None		
Toluene-d8:	83	58-130 %	<u> </u>	510.		
4-Bromofluorobenzene:	73	40-135 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B43-2.5	27827-032	2 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	15:20	15:20	22:41	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	96	65-130 %		ifiers: None		
Toluene-d8:	84	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
B43-5	27827-033	3 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	15:28	15:28	23:02	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	94	65-130 %		ifiers: None		
Toluene-d8:	84	58-130 %				

Lab Reference # NAM 27827

Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B43-10	27827-034	4 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	15:30	15:30	23:23	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	,	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	3	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	95	65-130 %		ifiers: None		
Toluene-d8:	85	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

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Client Sample ID	Lab Sample Number	e Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B43-15	27827-03	5 4/5/2023	4/5/2023	4/5/2023	4/11/2023	Soil
		17:51	15:35	15:35	11:43	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl etl	her (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	e	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	S	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Ac	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	94	65-130 %		ifiers: None		
Toluene-d8:	84	58-130 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBHT040723	1		4/7/2023	4/10/2023	Soil
				10:30	20:04	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	μg/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobut	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	nloroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroeth	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichloro	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichloro	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethen	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethy	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethy	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	6	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acce	eptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	91 6	65-130 %	Data Qual	ifiers: None		
Toluene-d8:		58-130 %				
4-Bromofluorobenzene:		10-135 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBHT041023	1		4/10/2023	4/11/2023	Soil
				10:00	15:56	
<u>ANALYTE</u>	CAS#	μg/kg	<u>ANALYTE</u>		CAS#	ug/kg
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichl	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth	er (DIPE)	108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth	ner (ETBE)	637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	<5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ether (MTBE)	1634-04-4	<5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenze	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	<5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol	benzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	<5.0	1,1,2-Trichloro	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	Э	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoro	methane	75-69-4	<5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	<5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:		eptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:		65-130 %		ifiers: None		
Toluene-d8:		58-130 %		5.5.		
4-Bromofluorobenzene:		40-135 %				

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polynuclear Aromatic Hydrocarbons by SIM (EPA 8270C)

Client Sample ID	Lab Sa Num	•	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
B36-0.5	27827	'-027	4/5/2023 17:51	4/5/2023 14:20	4/6/2023 11:15	4/13/2023 10:28	Soil
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% R</u> (<u>C*</u>
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 82	
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13-1	182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Fact	<u>or:</u> 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie	rs: None	
Benzo(k)fluoranthene:	207-08-9	<50			Data Gaamie	10.	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Phenanthrene:	85-01-8	<50					
Indeno(1,2,3-cd)pyrene:	193-39-5	<50					
Naphthalene:	91-20-3	<50					
B36-2.5	27827	'-028	4/5/2023	4/5/2023	4/6/2023	4/13/2023	Soil
			17:51	14:23	11:15	11:00	
ANALYTE					٠ ،	٠	C.*
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% R</u> (<u> </u>
	<u>CAS #</u> 83-32-9	μg/kg <50			Surrogate: Nitrobenzene		
Acenaphthene:					Nitrobenzene	e-d5 77	
	83-32-9	<50			Nitrobenzene		
Acenaphthene: Acenaphthylene:	83-32-9 208-96-8	<50 <50			Nitrobenzene	e-d5 77	
Acenaphthene: Acenaphthylene: Anthracene:	83-32-9 208-96-8 120-12-7	<50 <50 <50			Nitrobenzene	e-d5 77 Recovery: 13-1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene:	83-32-9 208-96-8 120-12-7 56-55-3	<50 <50 <50 <50			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	<50 <50 <50 <50 <50			Nitrobenzene * Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2	<50 <50 <50 <50 <50 <50			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9	<50 <50 <50 <50 <50 <50 <50			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2	<50 <50 <50 <50 <50 <50 <50 <50			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9	<50 <50 <50 <50 <50 <50 <50 <50 <50			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	<50 <50 <50 <50 <50 <50 <50 <50 <50 <60			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0	<50 <50 <50 <50 <50 <50 <50 <50 <60 <65			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0	<50 <50 <50 <50 <50 <50 <50 <60 <65			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	
Acenaphthene: Acenaphthylene: Anthracene: Benz(a)anthracene: Benzo(a)pyrene: Benzo(b)fluoranthene: Benzo(k)fluoranthene: Benzo(g,h,i)perylene: Chrysene: Dibenz(a,h)anthracene: Fluoranthene: Pyrene: Fluorene:	83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3 206-44-0 129-00-0 86-73-7	<50 <50 <50 <50 <50 <50 <50 <60 <65 <65 <50			* Acceptable	e-d5 77 Recovery: 13-1 or: 1	

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Polynuclear Aromatic Hydrocarbons by SIM (EPA 8270C)

Client Sample ID	Lab Sa Num	•	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBGS04	405231			4/5/2023	4/5/2023	Soil
					12:35	16:37	
<u>ANALYTE</u>	CAS#	μg/kg			Surrogate:	<u>% F</u>	<u>C*</u>
Acenaphthene:	83-32-9	<50			Nitrobenzene	e-d5 6 ²	1
Acenaphthylene:	208-96-8	<50					
Anthracene:	120-12-7	<50			* Acceptable	Recovery: 13-	182 %
Benz(a)anthracene:	56-55-3	<50					
Benzo(a)pyrene:	50-32-8	<50			Dilution Factor	<u>or:</u> 1	
Benzo(b)fluoranthene:	205-99-2	<50			Data Qualifie	rs: None	
Benzo(k)fluoranthene:	207-08-9	<50			Data Quamio	10.	
Benzo(g,h,i)perylene:	191-24-2	<50					
Chrysene:	218-01-9	<50					
Dibenz(a,h)anthracene:	53-70-3	<60					
Fluoranthene:	206-44-0	<65					
Pyrene:	129-00-0	<65					
Fluorene:	86-73-7	<50					
Phenanthrene:	85-01-8	<50					
Indeno(1,2,3-cd)pyrene:	193-39-5	<50					
Naphthalene:	91-20-3	<50					

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample	ed	Matrix	
B34-2.5			27827-001	4/5/2023 17:5	51 4/5/202	3 8:00	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Arsenic	6010B	2.4	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Barium	6010B	190	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Beryllium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Cadmium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Chromium	6010B	12	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Cobalt	6010B	7.3	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Copper	6010B	17	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Lead	6010B	230	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Mercury	7471A	0.11	mg/kg	04/06/23 16:00	04/11/23 10:20		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Nickel	6010B	8.0	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Vanadium	6010B	27	mg/kg	04/06/23 12:00	04/10/23 12:49		1
	Zinc	6010B	210	mg/kg	04/06/23 12:00	04/10/23 12:49		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B34-10			27827-003	4/5/2023 17:	51 4/5/202	23 8:30	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Barium	6010B	71	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Chromium	6010B	10	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Cobalt	6010B	7.7	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Copper	6010B	11	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Lead	6010B	3.3	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Mercury	7471A	<0.10	mg/kg	04/06/23 16:00	04/11/23 10:25		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Nickel	6010B	6.9	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Vanadium	6010B	28	mg/kg	04/06/23 12:00	04/10/23 13:04		1
	Zinc	6010B	35	mg/kg	04/06/23 12:00	04/10/23 13:04		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample	ed	Matrix	
B35-2.5			27827-004	4/5/2023 17:5	51 4/5/202	3 9:10	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Barium	6010B	85	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Beryllium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Cadmium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Chromium	6010B	13	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Cobalt	6010B	8.3	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Copper	6010B	12	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Lead	6010B	3.4	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Mercury	7471A	0.11	mg/kg	04/06/23 16:00	04/11/23 10:27		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Nickel	6010B	8.5	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Vanadium	6010B	32	mg/kg	04/06/23 12:00	04/10/23 13:07		1
	Zinc	6010B	45	mg/kg	04/06/23 12:00	04/10/23 13:07		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B35-10			27827-006	4/5/2023 17:	51 4/5/202	23 9:25	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Barium	6010B	71	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Chromium	6010B	10	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Cobalt	6010B	7.0	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Copper	6010B	11	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Lead	6010B	2.4	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Mercury	7471A	0.18	mg/kg	04/06/23 16:00	04/11/23 10:29		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Nickel	6010B	6.4	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Vanadium	6010B	26	mg/kg	04/06/23 12:00	04/10/23 13:16		1
	Zinc	6010B	35	mg/kg	04/06/23 12:00	04/10/23 13:16		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B46-0.5			27827-007	4/5/2023 17:	51 4/5/202	23 9:58	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Barium	6010B	100	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Chromium	6010B	15	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Cobalt	6010B	8.9	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Copper	6010B	14	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Lead	6010B	16	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Mercury	7471A	0.45	mg/kg	04/06/23 16:00	04/11/23 10:30		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Nickel	6010B	9.3	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Vanadium	6010B	36	mg/kg	04/06/23 12:00	04/10/23 13:19		1
	Zinc	6010B	71	mg/kg	04/06/23 12:00	04/10/23 13:19		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B46-2.5			27827-008	4/5/2023 17:	51 4/5/202	23 10:00	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Barium	6010B	95	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Chromium	6010B	15	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Cobalt	6010B	9.5	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Copper	6010B	13	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Lead	6010B	8.6	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Mercury	7471A	0.14	mg/kg	04/06/23 16:00	04/11/23 10:32		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Nickel	6010B	9.4	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Vanadium	6010B	38	mg/kg	04/06/23 12:00	04/10/23 13:22		1
	Zinc	6010B	52	mg/kg	04/06/23 12:00	04/10/23 13:22		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	ole ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B46-5			27827-009	4/5/2023 17:	51 4/5/202	23 10:13	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Barium	6010B	88	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Chromium	6010B	14	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Cobalt	6010B	8.8	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Copper	6010B	13	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Lead	6010B	3.9	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Mercury	7471A	0.12	mg/kg	04/06/23 16:00	04/11/23 10:34		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Nickel	6010B	8.6	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Vanadium	6010B	34	mg/kg	04/06/23 12:00	04/10/23 13:25		1
	Zinc	6010B	44	mg/kg	04/06/23 12:00	04/10/23 13:25		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B46-10			27827-010	4/5/2023 17:	51 4/5/202	23 10:15	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Barium	6010B	84	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Chromium	6010B	12	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Cobalt	6010B	8.6	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Copper	6010B	12	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Lead	6010B	3.1	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Mercury	7471A	<0.10	mg/kg	04/06/23 16:00	04/11/23 10:36		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Nickel	6010B	8.3	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Vanadium	6010B	32	mg/kg	04/06/23 12:00	04/10/23 13:28		1
	Zinc	6010B	43	mg/kg	04/06/23 12:00	04/10/23 13:28		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B39-0.5			27827-012	4/5/2023 17:	51 4/5/202	23 10:49	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Barium	6010B	100	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Chromium	6010B	15	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Cobalt	6010B	9.6	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Copper	6010B	15	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Lead	6010B	16	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Mercury	7471A	0.11	mg/kg	04/06/23 16:00	04/11/23 10:37		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Nickel	6010B	9.9	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Vanadium	6010B	39	mg/kg	04/06/23 12:00	04/10/23 13:31		1
	Zinc	6010B	58	mg/kg	04/06/23 12:00	04/10/23 13:31		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample	ed	Matrix	
B39-2.5			27827-013	4/5/2023 17:5	51 4/5/202	3 10:52	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Barium	6010B	93	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Chromium	6010B	14	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Cobalt	6010B	7.8	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Copper	6010B	11	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Lead	6010B	6.9	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Mercury	7471A	0.19	mg/kg	04/06/23 16:00	04/11/23 10:39		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Nickel	6010B	7.9	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Vanadium	6010B	32	mg/kg	04/06/23 12:00	04/10/23 13:34		1
	Zinc	6010B	46	mg/kg	04/06/23 12:00	04/10/23 13:34		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B39-5			27827-014	4/5/2023 17:	51 4/5/202	23 11:00	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Barium	6010B	150	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Chromium	6010B	16	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Cobalt	6010B	9.6	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Copper	6010B	14	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Lead	6010B	13	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Mercury	7471A	0.17	mg/kg	04/06/23 16:00	04/11/23 10:41		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Nickel	6010B	10	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Vanadium	6010B	38	mg/kg	04/06/23 12:00	04/10/23 13:38		1
	Zinc	6010B	62	mg/kg	04/06/23 12:00	04/10/23 13:38		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID			Lab Sample Number	Date Received	Date Sampled	d	Matrix	
B39-10			27827-015	4/5/2023 17:51	4/5/2023	3 11:02	Soil	
AN	NALYTE EF	PA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>
An	ntimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Ars	senic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Ва	arium	6010B	82	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Ве	eryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Ca	admium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Ch	nromium	6010B	9.7	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Co	balt	6010B	7.3	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Co	pper	6010B	9.3	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Lea	ad	6010B	2.1	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Me	ercury	7471A	0.18	mg/kg	04/06/23 16:00	04/11/23 10:46		1
Mo	olybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Nic	ckel	6010B	6.4	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Se	elenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Silv	ver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Tha	allium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Va	anadium	6010B	26	mg/kg	04/06/23 12:00	04/10/23 13:41		1
Zin	nc	6010B	40	mg/kg	04/06/23 12:00	04/10/23 13:41		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID	Client Sample ID		Lab Sample Number	Date Received	Date Sample	d	Matrix	
B39-15			27827-016	4/5/2023 17:5	1 4/5/202	3 11:05	Soil	
<u>A</u>	NALYTE	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
А	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:44		1
А	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:44		1
В	Barium	6010B	49	mg/kg	04/06/23 12:00	04/10/23 13:44		1
В	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:44		1
C	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:44		1
C	Chromium	6010B	5.6	mg/kg	04/06/23 12:00	04/10/23 13:44		1
С	Cobalt	6010B	4.9	mg/kg	04/06/23 12:00	04/10/23 13:44		1
C	Copper	6010B	<5.0	mg/kg	04/06/23 12:00	04/10/23 13:44		1
L	ead	6010B	1.4	mg/kg	04/06/23 12:00	04/10/23 13:44		1
N	Mercury	7471A	<0.10	mg/kg	04/06/23 16:00	04/11/23 10:49		1
N	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:44		1
N	Nickel	6010B	4.1	mg/kg	04/06/23 12:00	04/10/23 13:44		1
S	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:44		1
S	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:44		1
Т	Thallium Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:44		1
V	/anadium	6010B	18	mg/kg	04/06/23 12:00	04/10/23 13:44		1
Z	Zinc	6010B	260	mg/kg	04/06/23 12:00	04/10/23 13:44		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	e ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B38-0.5			27827-017	4/5/2023 17:	51 4/5/202	23 12:37	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Barium	6010B	110	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Chromium	6010B	15	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Cobalt	6010B	10	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Copper	6010B	15	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Lead	6010B	8.4	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Mercury	7471A	0.15	mg/kg	04/06/23 16:00	04/11/23 10:51		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Nickel	6010B	10	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Vanadium	6010B	39	mg/kg	04/06/23 12:00	04/10/23 13:53		1
	Zinc	6010B	53	mg/kg	04/06/23 12:00	04/10/23 13:53		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B38-2.5			27827-018	4/5/2023 17:	51 4/5/202	23 12:39	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Barium	6010B	100	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Chromium	6010B	15	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Cobalt	6010B	10	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Copper	6010B	14	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Lead	6010B	6.9	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Mercury	7471A	0.18	mg/kg	04/06/23 16:00	04/11/23 10:53		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Nickel	6010B	9.7	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Vanadium	6010B	40	mg/kg	04/06/23 12:00	04/10/23 13:56		1
	Zinc	6010B	51	mg/kg	04/06/23 12:00	04/10/23 13:56		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	ole ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B38-5			27827-019	4/5/2023 17:	51 4/5/202	23 12:53	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Arsenic	6010B	2.5	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Barium	6010B	150	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Beryllium	6010B	0.71	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Chromium	6010B	23	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Cobalt	6010B	14	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Copper	6010B	25	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Lead	6010B	6.8	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Mercury	7471A	0.49	mg/kg	04/06/23 16:00	04/11/23 10:54		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Nickel	6010B	16	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Vanadium	6010B	54	mg/kg	04/06/23 12:00	04/10/23 13:58		1
	Zinc	6010B	67	mg/kg	04/06/23 12:00	04/10/23 13:58		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B38-10			27827-020	4/5/2023 17:	51 4/5/202	23 12:55	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Arsenic	6010B	2.2	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Barium	6010B	85	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Chromium	6010B	12	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Cobalt	6010B	8.1	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Copper	6010B	11	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Lead	6010B	2.6	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Mercury	7471A	0.13	mg/kg	04/06/23 16:30	04/11/23 11:02		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Nickel	6010B	7.5	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Vanadium	6010B	30	mg/kg	04/06/23 12:00	04/10/23 14:01		1
	Zinc	6010B	40	mg/kg	04/06/23 12:00	04/10/23 14:01		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B38-15			27827-021	4/5/2023 17:	51 4/5/202	23 12:58	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Barium	6010B	82	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Chromium	6010B	14	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Cobalt	6010B	7.6	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Copper	6010B	13	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Lead	6010B	5.7	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Mercury	7471A	0.19	mg/kg	04/06/23 16:30	04/11/23 11:10		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Nickel	6010B	11	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Vanadium	6010B	33	mg/kg	04/06/23 12:00	04/10/23 14:04		1
	Zinc	6010B	42	mg/kg	04/06/23 12:00	04/10/23 14:04		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	e ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B37-0.5			27827-022	4/5/2023 17:	51 4/5/202	23 13:26	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Arsenic	6010B	2.3	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Barium	6010B	100	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Chromium	6010B	14	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Cobalt	6010B	9.4	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Copper	6010B	13	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Lead	6010B	13	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Mercury	7471A	0.14	mg/kg	04/06/23 16:30	04/11/23 11:12		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Nickel	6010B	9.2	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Vanadium	6010B	36	mg/kg	04/06/23 12:00	04/10/23 14:07		1
	Zinc	6010B	62	mg/kg	04/06/23 12:00	04/10/23 14:07		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B37-2.5			27827-023	4/5/2023 17:	51 4/5/202	23 13:32	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Barium	6010B	120	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Chromium	6010B	18	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Cobalt	6010B	12	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Copper	6010B	16	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Lead	6010B	4.1	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Mercury	7471A	0.13	mg/kg	04/06/23 16:30	04/11/23 11:14		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Nickel	6010B	12	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Vanadium	6010B	46	mg/kg	04/06/23 12:00	04/10/23 14:11		1
	Zinc	6010B	56	mg/kg	04/06/23 12:00	04/10/23 14:11		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample	ed	Matrix	
B37-5			27827-024	4/5/2023 17:	51 4/5/202	23 13:42	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Barium	6010B	94	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Chromium	6010B	14	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Cobalt	6010B	9.8	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Copper	6010B	13	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Lead	6010B	3.9	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Mercury	7471A	0.11	mg/kg	04/06/23 16:30	04/11/23 11:16		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Nickel	6010B	9.6	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Silver	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Vanadium	6010B	37	mg/kg	04/06/23 12:00	04/10/23 14:28		1
	Zinc	6010B	46	mg/kg	04/06/23 12:00	04/10/23 14:28		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B37-10			27827-025	4/5/2023 17:	51 4/5/202	23 13:44	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Arsenic	6010B	3.9	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Barium	6010B	150	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Beryllium	6010B	0.76	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Chromium	6010B	21	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Cobalt	6010B	14	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Copper	6010B	24	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Lead	6010B	6.3	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Mercury	7471A	0.14	mg/kg	04/06/23 16:30	04/11/23 11:17		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Nickel	6010B	15	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Vanadium	6010B	53	mg/kg	04/06/23 12:00	04/10/23 14:44		1
	Zinc	6010B	67	mg/kg	04/06/23 12:00	04/10/23 14:44		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample ID		Lab Sample Number	Date Received	Date Sampled	d	Matrix	
B37-15		27827-026	4/5/2023 17:	51 4/5/2023	3 13:46	Soil	
ANAL	YTE EPA Metho	od Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
Antimo	ony 6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Arseni	c 6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Barium	n 6010B	80	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Berylliu	um 6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Cadmi	um 6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Chrom	ium 6010B	13	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Cobalt	6010B	8.5	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Coppe	r 6010B	11	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Lead	6010B	2.6	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Mercui	ry 7471A	<0.10	mg/kg	04/06/23 16:30	04/11/23 11:19		1
Molybo	denum 6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Nickel	6010B	8.4	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Seleni	um 6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Thalliu	m 6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Vanad	ium 6010B	34	mg/kg	04/06/23 12:00	04/10/23 14:47		1
Zinc	6010B	41	mg/kg	04/06/23 12:00	04/10/23 14:47		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B36-0.5			27827-027	4/5/2023 17:	51 4/5/202	23 14:20	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Arsenic	6010B	2.1	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Barium	6010B	88	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Chromium	6010B	13	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Cobalt	6010B	7.6	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Copper	6010B	19	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Lead	6010B	15	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Mercury	7471A	0.18	mg/kg	04/06/23 16:30	04/11/23 11:21		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Nickel	6010B	7.9	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Vanadium	6010B	31	mg/kg	04/06/23 12:00	04/10/23 14:50		1
	Zinc	6010B	46	mg/kg	04/06/23 12:00	04/10/23 14:50		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample	d	Matrix	
B36-2.5			27827-028	4/5/2023 17:5	51 4/5/202	3 14:23	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Arsenic	6010B	2.2	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Barium	6010B	110	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Beryllium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Cadmium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Chromium	6010B	15	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Cobalt	6010B	10	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Copper	6010B	15	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Lead	6010B	5.6	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Mercury	7471A	0.20	mg/kg	04/06/23 16:30	04/11/23 11:22		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Nickel	6010B	11	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Silver	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Vanadium	6010B	39	mg/kg	04/06/23 12:00	04/10/23 14:53		1
	Zinc	6010B	51	mg/kg	04/06/23 12:00	04/10/23 14:53		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B43-0.5			27827-031	4/5/2023 17:	51 4/5/202	23 15:15	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Barium	6010B	430	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Chromium	6010B	12	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Cobalt	6010B	7.7	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Copper	6010B	11	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Lead	6010B	7.1	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Mercury	7471A	0.15	mg/kg	04/06/23 16:30	04/11/23 11:28		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Nickel	6010B	7.6	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Vanadium	6010B	32	mg/kg	04/06/23 12:00	04/12/23 09:52		1
	Zinc	6010B	50	mg/kg	04/06/23 12:00	04/12/23 09:52		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample	ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B43-2.5			27827-032	4/5/2023 17:	51 4/5/202	23 15:20	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Barium	6010B	110	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Chromium	6010B	13	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Cobalt	6010B	9.0	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Copper	6010B	13	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Lead	6010B	4.7	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Mercury	7471A	0.10	mg/kg	04/06/23 16:30	04/11/23 11:29		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Nickel	6010B	8.7	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Vanadium	6010B	35	mg/kg	04/06/23 12:00	04/12/23 09:54		1
	Zinc	6010B	49	mg/kg	04/06/23 12:00	04/12/23 09:54		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B43-5			27827-033	4/5/2023 17:	51 4/5/202	23 15:28	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Arsenic	6010B	2.5	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Barium	6010B	130	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Beryllium	6010B	0.59	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Chromium	6010B	20	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Cobalt	6010B	13	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Copper	6010B	20	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Lead	6010B	4.2	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Mercury	7471A	0.19	mg/kg	04/06/23 16:30	04/11/23 11:31		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Nickel	6010B	13	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Vanadium	6010B	52	mg/kg	04/06/23 12:00	04/12/23 09:58		1
	Zinc	6010B	62	mg/kg	04/06/23 12:00	04/12/23 09:58		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Samp	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B43-10			27827-034	4/5/2023 17:	51 4/5/202	23 15:30	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Barium	6010B	95	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Chromium	6010B	12	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Cobalt	6010B	8.9	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Copper	6010B	13	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Lead	6010B	3.0	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Mercury	7471A	0.16	mg/kg	04/06/23 16:30	04/11/23 11:33		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Nickel	6010B	8.1	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Vanadium	6010B	31	mg/kg	04/06/23 12:00	04/12/23 10:01		1
	Zinc	6010B	44	mg/kg	04/06/23 12:00	04/12/23 10:01		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sampl	le ID		Lab Sample Number	Date Received	Date Sample		Matrix	
B43-15			27827-035	4/5/2023 17:	51 4/5/202	23 15:35	Soil	
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>
	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Arsenic	6010B	2.0	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Barium	6010B	110	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Beryllium	6010B	0.54	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Chromium	6010B	17	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Cobalt	6010B	12	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Copper	6010B	19	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Lead	6010B	4.2	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Mercury	7471A	0.11	mg/kg	04/06/23 16:30	04/11/23 11:35		1
	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Nickel	6010B	12	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Vanadium	6010B	45	mg/kg	04/06/23 12:00	04/12/23 10:04		1
	Zinc	6010B	56	mg/kg	04/06/23 12:00	04/12/23 10:04		1

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample I	D		Lab Sample Number	Date Received	Date Sample		Matrix		
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBIR0406233	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Barium	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Beryllium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Cadmium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Chromium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Cobalt	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Copper	6010B	<5.0	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Lead	6010B	<0.80	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406235	Mercury	7471A	<0.10	mg/kg	04/06/23 16:00	04/11/23 10:02		1	
MBIR0406233	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Nickel	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Silver	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Vanadium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 12:40		1	
MBIR0406233	Zinc	6010B	<5.0	mg/kg	04/06/23 12:00	04/10/23 12:40		1	

Lab Reference # NAM 27827 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample I	D		Lab Sample Number	Date Received	Date Sample		Matrix		
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBIR0406234	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Barium	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Beryllium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Cadmium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Chromium	6010B	< 0.50	mg/kg	04/06/23 12:00	04/12/23 14:06		1	
MBIR0406234	Cobalt	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Copper	6010B	<5.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Lead	6010B	<0.80	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406236	Mercury	7471A	<0.10	mg/kg	04/06/23 16:30	04/11/23 10:56		1	
MBIR0406234	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Nickel	6010B	<1.0	mg/kg	04/06/23 12:00	04/12/23 14:06		1	
MBIR0406234	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Vanadium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Zinc	6010B	<5.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	

for

Extactable Fuel Hydrocarbons (EPA 8015B/8015M)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/11/2023 14:35 <u>Date of Analysis:</u> 4/13/2023 11:44 <u>Dup Date of Analysis:</u> 4/13/2023 12:04

Laboratory Sample #: 27827-003

MS/MSD Qualifiers: None

Reference #: NAM 27827

		SPC						ACP	ACP	
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
EFH as Diesel	0.00	1000	1450	1420	145	142	2	8-193	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Octacosane	145	153		113	111		40-160

Laboratory Control Sample

EFH as Diesel

 Date of Extraction:
 4/11/2023
 14:35

 Date of Analysis:
 4/13/2023
 11:00

 Dup Date of Analysis:
 4/13/2023
 11:22

 Laboratory Sample #:
 VV0411231

 LCS Qualifiers:
 None

1000

935

SPC Analyte CONC LCS LCSD %LCS %LCSD RPD %LCS RPD

94

101

8

1010

Qual

17-180

for

Extactable Fuel Hydrocarbons (EPA 8015B/8015M)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/11/2023 16:37 <u>Date of Analysis:</u> 4/15/2023 5:41 <u>Dup Date of Analysis:</u> 4/15/2023 6:03

Laboratory Sample #: 27827-024

MS/MSD Qualifiers: S1,

Reference #: NAM 27827

Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual	1
EFH as Diesel	0.00	1000	1290	1230	129	123	5	8-193	20		l

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Octacosane	181	195	✓	114	116		40-160

Laboratory Control Sample

 Date of Extraction:
 4/11/2023
 16:37

 Date of Analysis:
 4/15/2023
 4:58

 Dup Date of Analysis:
 4/15/2023
 5:20

 Laboratory Sample #:
 VV0411232

 LCS Qualifiers:
 None

	SPC			2/1.00	2/1 005		ACP	ACP	
Analyte	CONC	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
EFH as Diesel	1000	684	747	68	75	9	17-180	42	

for

Volatile Fuel Hydrocarbons (EPA 8015B)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/6/2023 13:00 <u>Date of Analysis:</u> 4/6/2023 14:30 <u>Dup Date of Analysis:</u> 4/6/2023 14:51

<u>Laboratory Sample #:</u> 27825-001 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27827

		SPC						ACP	ACP		l
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual	l
VFH as Gasoline	0.00	0.250	0.152	0.139	61	56	9	20-144	50		l

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
α - α - α -Trifluorotoluene	76	68		95	90		32-153

Laboratory Control Sample

 Date of Extraction:
 4/6/2023
 13:00

 Date of Analysis:
 4/6/2023
 13:49

 Dup Date of Analysis:
 4/6/2023
 14:10

 Laboratory Sample #:
 LY0406231

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
VFH as Gasoline	0.250	0.181	0.193	72	77	6	38-130	27	

for

Volatile Fuel Hydrocarbons (EPA 8015B)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/10/2023 9:30

<u>Date of Analysis:</u> 4/10/2023 12:27

<u>Dup Date of Analysis:</u> 4/10/2023 12:47

Laboratory Sample #: 27827-007

MS/MSD Qualifiers: R5,

Reference #: NAM 27827

Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
VFH as Gasoline	0.00	0.250	0.194	0.114	78	46	52	20-144	50	✓

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
α - α - α -Trifluorotoluene	105	63		87	96		32-153

Laboratory Control Sample

 Date of Extraction:
 4/10/2023
 9:30

 Date of Analysis:
 4/10/2023
 10:58

 Dup Date of Analysis:
 4/10/2023
 11:19

 Laboratory Sample #:
 LY0410231

LCS Qualifiers: None

	SPC						ACP	ACP	
Analyte	CONC	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
VFH as Gasoline	0.250	0.210	0.194	84	78	8	38-130	27	

for

Volatile Fuel Hydrocarbons (EPA 8015B)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/11/2023 9:30

<u>Date of Analysis:</u> 4/11/2023 11:45

<u>Dup Date of Analysis:</u> 4/11/2023 12:06

<u>Laboratory Sample #:</u> 27828-001 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27827

		SPC						ACP	ACP		
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual	
VFH as Gasoline	0.00	0.250	0.123	0.165	49	66	29	20-144	50		1

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
α - α - α -Trifluorotoluene	82	84		111	86		32-153

Laboratory Control Sample

 Date of Extraction:
 4/11/2023
 9:30

 Date of Analysis:
 4/11/2023
 11:04

 Dup Date of Analysis:
 4/11/2023
 11:25

 Laboratory Sample #:
 LY0411231

 LCS Qualifiers:
 None

SPC ACP **ACP** Analyte CONC LCS **LCSD** %LCS %LCSD **RPD** %LCS RPD Qual VFH as Gasoline 38-130 0.250 0.168 0.196 67 78 15 27

QA/QC Report for

Organochlorine Pesticides (EPA 8081A)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

 Date of Extraction:
 4/6/2023
 11:15

 Date of Analysis:
 4/7/2023
 13:18

 Dup Date of Analysis:
 4/7/2023
 13:32

<u>Laboratory Sample #:</u> 27827-003 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27827

Analyte	R	Spike Conc.	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Aldrin	0.00	20.0	13.4	14.4	67	72	7	14-130	28	
alpha-BHC	0.00	20.0	13.0	14.0	65	70	7	13-130	29	
beta-BHC	0.00	20.0	14.3	15.5	72	77	8	13-140	26	
gamma-BHC (Lindane)	0.00	20.0	13.1	14.2	66	71	8	15-130	26	
4,4'-DDD	0.00	20.0	15.7	16.5	78	82	5	18-169	20	
4,4'-DDE	0.00	20.0	16.3	17.8	81	89	9	30-165	20	
4,4'-DDT	0.00	20.0	18.3	20.3	91	101	10	34-170	20	
delta-BHC	0.00	20.0	15.7	16.9	78	84	7	18-143	27	
Dieldrin	0.00	20.0	15.0	16.2	75	81	8	24-147	20	
Endosulfan I	0.00	20.0	15.5	16.7	77	84	7	13-158	23	
Endosulfan II	0.00	20.0	15.4	16.4	77	82	6	19-143	29	
Endosulfan sulfate	0.00	20.0	15.9	16.8	79	84	6	D-158	59	
Endrin	0.00	20.0	15.0	15.8	75	79	5	26-156	25	
Endrin Aldehyde	0.00	20.0	11.5	12.9	57	64	11	D-148	59	
Endrin ketone	0.00	20.0	14.2	15.3	71	76	7	D-147	36	
Heptachlor	0.00	20.0	13.1	14.1	66	71	7	10-130	30	
Heptachlor epoxide	0.00	20.0	13.7	14.8	69	74	8	19-134	24	
Methoxychlor	0.00	20.0	18.4	19.3	92	96	5	12-165	32	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	86	96		89	91		35-130

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 4/6/2023
 11:15

 Date of Analysis:
 4/7/2023
 11:21

 Dup Date of Analysis:
 4/7/2023
 11:36

 Laboratory Sample #:
 BL0406231

 LCS/LCSD Qualifiers:
 None

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Aldrin	20.0	13.8	14.5	69	73	5	7-130	31	
alpha-BHC	20.0	13.4	14.4	67	72	7	10-130	25	
beta-BHC	20.0	13.5	15.7	68	78	15	12-137	23	
gamma-BHC (Lindane)	20.0	12.9	14.3	64	72	10	14-130	22	
4,4'-DDD	20.0	15.0	16.7	75	84	11	25-161	20	
4,4'-DDE	20.0	16.7	17.5	84	88	5	20-154	20	

for

Organochlorine Pesticides (EPA 8081A) Reporting Units: ppb

Amalista	Spike	1.00	1.000	0/1.00	0/1 000	DDD	ACP	ACP	Ougl
Analyte	Conc.	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
4,4'-DDT	20.0	17.7	18.7	89	94	5	26-164	20	
delta-BHC	20.0	15.0	16.6	75	83	10	17-137	24	
Dieldrin	20.0	14.5	16.0	73	80	10	18-138	21	
Endosulfan I	20.0	15.8	16.5	79	82	4	14-142	23	
Endosulfan II	20.0	14.9	15.8	75	79	6	18-148	20	
Endosulfan sulfate	20.0	15.5	16.4	77	82	6	11-159	32	
Endrin	20.0	14.7	16.2	74	81	10	22-141	21	
Endrin Aldehyde	20.0	10.5	12.1	52	61	14	2-140	40	
Endrin ketone	20.0	13.6	15.2	68	76	11	12-145	22	
Heptachlor	20.0	12.9	14.2	64	71	10	5-130	29	
Heptachlor epoxide	20.0	13.9	14.6	69	73	5	14-130	22	
Methoxychlor	20.0	17.8	17.6	89	88	1	29-157	20	

for

Polychlorinated Biphenyl's (EPA 8082)

Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/6/2023 15:25 <u>Date of Analysis:</u> 4/7/2023 17:40 <u>Dup Date of Analysis:</u> 4/7/2023 17:55

<u>Laboratory Sample #:</u> 27827-014 <u>MS/MSD Qualifiers:</u> None Reference #: NAM 27827

Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
PCB-1016	0.00	150	99.4	87.0	66	58	13	28-130	28	
PCB-1260	0.00	150	95.6	104	64	69	8	36-132	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Decachlorobiphenyl	70	77		86	87		35-130

Laboratory Control Sample

 Date of Extraction:
 4/6/2023
 15:25

 Date of Analysis:
 4/7/2023
 17:11

 Dup Date of Analysis:
 4/7/2023
 17:26

 Laboratory Sample #:
 VV0406231

LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
PCB-1016	150	82.9	80.6	55	54	3	14-130	31	
PCB-1260	150	104	101	69	67	3	42-130	20	

for

Volatile Organic Compounds (8260B)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/10/2023 10:35

<u>Date of Analysis:</u> 4/10/2023 14:45

<u>Dup Date of Analysis:</u> 4/10/2023 15:05

<u>Laboratory Sample #:</u> 27830-011 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27827

		Spike						ACP	ACP	
Analyte	R	Conc.	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
Benzene	0.00	10.0	10.5	10.8	105	108	3	70-138	20	
Chlorobenzene	0.00	10.0	10.9	11.2	109	112	3	70-132	20	
1,1-Dichloroethene	0.00	10.0	7.98	8.19	80	82	3	46-130	20	
Toluene	0.00	10.0	10.5	10.9	105	109	4	70-130	20	
Trichloroethene	0.00	10.0	9.87	10.1	99	101	2	70-135	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	86	87	
Toluene-d8	83	88	
4-Bromofluorobenzene	78	91	

LCS	LCSD	Qual
87	87	
84	85	
85	87	

ACP % RC
65-130
58-130
40-135

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 4/10/2023
 10:35

 Date of Analysis:
 4/10/2023
 14:05

 Dup Date of Analysis:
 4/10/2023
 14:25

 Laboratory Sample #:
 HT0410231

LCS/LCSD Qualifiers: None

Spike **ACP ACP** Analyte Conc. **LCS LCSD** %LCS %LCSD **RPD** %LCS **RPD** Qual Benzene 10.0 12.2 10.3 122 103 17 70-134 20 Chlorobenzene 10.0 12.5 10.8 125 108 15 70-130 20 1,1-Dichloroethene 10.0 8.75 7.47 88 75 16 48-130 20 Toluene 10.0 11.9 10.3 119 103 14 70-130 20 --Trichloroethene 11.3 113 96 16 70-132 10.0 9.64 20

for Volatile Organic Compounds (8260B)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/11/2023 12:09
<u>Date of Analysis:</u> 4/11/2023 17:02
<u>Dup Date of Analysis:</u> 4/11/2023 17:22

<u>Laboratory Sample #:</u> 27827-010 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27827

		Spike						ACP	ACP	
Analyte	R	Conc.	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
Benzene	0.00	10.0	11.3	10.8	113	108	5	70-138	20	-
Chlorobenzene	0.00	10.0	11.3	11.0	113	110	3	70-132	20	
1,1-Dichloroethene	0.00	10.0	8.98	8.59	90	86	4	46-130	20	
Toluene	0.00	10.0	10.9	10.4	109	104	5	70-130	20	
Trichloroethene	0.00	10.0	10.8	10.3	108	103	5	70-135	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	94	95	
Toluene-d8	84	87	
4-Bromofluorobenzene	78	84	

LCS	LCSD	Qual
93	97	
85	89	
77	87	

ACP % RC	
65-130	
58-130	
40-135	

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 4/11/2023
 12:09

 Date of Analysis:
 4/11/2023
 16:15

 Dup Date of Analysis:
 4/11/2023
 16:35

 Laboratory Sample #:
 HT0411231

LCS/LCSD Qualifiers: None

	Spike						ACP	ACP	
Analyte	Conc.	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
Benzene	10.0	10.2	9.76	102	98	4	70-134	20	
Chlorobenzene	10.0	10.2	10.1	102	101	1	70-130	20	
1,1-Dichloroethene	10.0	7.51	7.72	75	77	3	48-130	20	
Toluene	10.0	9.78	9.42	98	94	4	70-130	20	
Trichloroethene	10.0	9.30	8.92	93	89	4	70-132	20	

for

Semi-Volatile Organic Compounds (8270C)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

 Date of Extraction:
 4/5/2023
 12:35

 Date of Analysis:
 4/5/2023
 18:13

 Dup Date of Analysis:
 4/5/2023
 18:46

<u>Laboratory Sample #:</u> 27811-007 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27827

Analyte	R	Spike Conc.	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Acenaphthene	0.00	20.0	17.9	17.3	89	86	3	11-138	20	
Acenaphthylene	0.00	20.0	15.1	14.7	75	74	3	54-130	32	
Anthracene	0.00	20.0	18.6	18.5	93	93	1	43-130	30	
Benz(a)anthracene	0.00	20.0	23.1	23.0	115	115	0	42-133	30	
Benzo(a)pyrene	0.00	20.0	16.8	17.2	84	86	2	32-148	30	
Benzo(b)fluoranthene	0.00	20.0	17.3	17.5	86	88	1	42-140	30	
Benzo(g,h,i)perylene	0.00	20.0	12.7	13.2	63	66	4	D-195	30	
Benzo(k)fluoranthene	0.00	20.0	14.4	14.7	72	74	2	25-146	30	
Chrysene	0.00	20.0	17.2	17.6	86	88	2	44-140	35	
Dibenz(a,h)anthracene	0.00	20.0	15.2	15.5	76	77	2	D-200	35	
Fluoranthene	0.00	20.0	20.5	20.7	102	104	1	43-130	30	
Fluorene	0.00	20.0	20.2	19.7	101	99	3	70-130	30	
Indeno(1,2,3-cd)pyrene	0.00	20.0	15.2	15.5	76	77	2	D-151	30	
Naphthalene	0.00	20.0	16.5	16.2	82	81	2	36-130	30	
Phenanthrene	0.00	20.0	19.5	19.7	98	99	1	70-130	30	
Pyrene	0.00	20.0	17.0	17.0	85	85	0	25-145	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Nitrobenzene-d5	69	58		82	65		8-134

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction:
 4/5/2023
 12:35

 Date of Analysis:
 4/5/2023
 17:09

 Dup Date of Analysis:
 4/5/2023
 17:41

 Laboratory Sample #:
 GS0405231

 LCS/LCSD Qualifiers:
 None

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Acenaphthene	20.0	18.4	18.3	92	91	1	24-137	20	
Acenaphthylene	20.0	16.5	15.8	82	79	4	54-126	32	
Anthracene	20.0	18.1	18.2	91	91	1	43-118	27	
Benz(a)anthracene	20.0	24.5	25.6	123	128	4	42-133	21	

QA/QC Report

for

Semi-Volatile Organic Compounds (8270C) Reporting Units: ppb

Analyte	Spike Conc.	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Benzo(a)pyrene	20.0	14.7	16.8	74	84	13	32-148	26	
Benzo(b)fluoranthene	20.0	15.3	17.1	76	86	11	42-140	28	
Benzo(g,h,i)perylene	20.0	11.8	13.0	59	65	10	D-195	30	
Benzo(k)fluoranthene	20.0	15.2	15.7	76	78	3	25-146	22	
Chrysene	20.0	16.4	17.3	82	86	5	44-140	35	
Dibenz(a,h)anthracene	20.0	14.0	15.3	70	76	9	D-200	35	
Fluoranthene	20.0	19.6	19.3	98	96	2	43-121	27	
Fluorene	20.0	21.0	20.6	105	103	2	72-108	20	
Indeno(1,2,3-cd)pyrene	20.0	14.0	15.3	70	76	9	D-151	30	
Naphthalene	20.0	20.3	15.8	101	79	25	36-120	25	
Phenanthrene	20.0	19.0	19.1	95	96	1	70-130	20	
Pyrene	20.0	16.9	17.0	84	85	1	27-154	20	

Reference #: NAM 27827 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27827-001 Date of Extraction: 04/06/23 12:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Antimony	04/10/23 12:52	04/10/23 12:55	0.00	20.0	3.67	4.51	18	23	21	75-125	20	M3,
Arsenic	04/10/23 12:52	04/10/23 12:55	2.40	20.0	16.4	18.0	70	78	9	75-125	20	M2,
Barium	04/10/23 12:52	04/10/23 12:55	190	20.0	149	195	0	25	27	75-125	20	M3,
Beryllium	04/10/23 12:52	04/10/23 12:55	0.00	20.0	14.3	15.7	72	78	9	75-125	20	M2,
Cadmium	04/10/23 12:52	04/10/23 12:55	0.00	20.0	15.0	16.0	75	80	6	75-125	20	
Chromium	04/10/23 12:52	04/10/23 12:55	12.0	20.0	24.1	27.1	61	76	12	75-125	20	M2,
Cobalt	04/10/23 12:52	04/10/23 12:55	7.30	20.0	19.8	21.9	62	73	10	75-125	20	M2,
Copper	04/10/23 12:52	04/10/23 12:55	17.0	20.0	29.0	33.5	60	83	14	75-125	20	M2,
Lead	04/10/23 12:52	04/10/23 12:55	230	20.0	115	440	0	1050	117	75-125	20	M3,
Molybdenum	04/10/23 12:52	04/10/23 12:55	0.00	20.0	13.6	14.5	68	73	6	75-125	20	M2,
Nickel	04/10/23 12:52	04/10/23 12:55	8.00	20.0	20.8	23.1	64	76	10	75-125	20	M2,
Selenium	04/10/23 12:52	04/10/23 12:55	0.00	20.0	13.7	11.3	68	57	19	75-125	20	M2,
Silver	04/10/23 12:52	04/10/23 12:55	0.00	20.0	15.8	16.4	79	82	4	75-125	20	
Thallium	04/10/23 12:52	04/10/23 12:55	0.00	20.0	12.6	11.4	63	57	10	75-125	20	M2,
Vanadium	04/10/23 12:52	04/10/23 12:55	27.0	20.0	37.9	42.6	55	78	12	75-125	20	M2,
Zinc	04/10/23 12:52	04/10/23 12:55	210	20.0	195	242	0	160	22	75-125	20	M3,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

6010B/7471A

Laboratory Sample #: IR0406233 Date of Extraction: 04/06/23 12:00

	111pic #: 110+0020		 LAtiuo		1,00,20	2.00					
Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Antimony	04/10/23 12:44	04/10/23 12:46	 20.0	19.3	19.4	96	97	1	80-120	20	-
Arsenic	04/10/23 12:44	04/10/23 12:46	 20.0	19.1	19.2	96	96	1	80-120	20	
Barium	04/10/23 12:44	04/10/23 12:46	 20.0	19.9	20.1	99	101	1	80-120	20	-
Beryllium	04/10/23 12:44	04/10/23 12:46	 20.0	19.2	19.5	96	98	2	80-120	20	-
Cadmium	04/10/23 12:44	04/10/23 12:46	 20.0	18.8	18.7	94	94	1	80-120	20	-
Chromium	04/10/23 12:44	04/10/23 12:46	 20.0	20.4	20.7	102	104	1	80-120	20	-
Cobalt	04/10/23 12:44	04/10/23 12:46	 20.0	20.3	20.5	101	102	1	80-120	20	
Copper	04/10/23 12:44	04/10/23 12:46	 20.0	20.8	21.2	104	106	2	80-120	20	
Lead	04/10/23 12:44	04/10/23 12:46	 20.0	20.1	20.2	101	101	0	80-120	20	
Molybdenum	04/10/23 12:44	04/10/23 12:46	 20.0	19.2	19.3	96	96	1	80-120	20	-
Nickel	04/10/23 12:44	04/10/23 12:46	 20.0	20.7	21.0	104	105	1	80-120	20	-
Selenium	04/10/23 12:44	04/10/23 12:46	 20.0	20.7	17.0	104	85	20	80-120	20	-
Silver	04/10/23 12:44	04/10/23 12:46	 20.0	19.1	19.2	96	96	1	80-120	20	-
Thallium	04/10/23 12:44	04/10/23 12:46	 20.0	20.4	20.3	102	101	0	80-120	20	
Vanadium	04/10/23 12:44	04/10/23 12:46	 20.0	19.3	19.5	96	98	1	80-120	20	
Zinc	04/10/23 12:44	04/10/23 12:46	 20.0	20.5	20.2	102	101	1	80-120	20	

Reference #: NAM 27827 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27827-024 **Date of Extraction:** 04/06/23 12:00

	MS Date	MSD Date	D 4	SPC			%	%		ACP	ACP	
Analyte	of Analysis	of Analysis	R1	CONC	MS	MSD	MS	MSD	RPD	%MS	RPD	Qualifiers
Antimony	04/10/23 14:31	04/10/23 14:34	0.00	20.0	6.00	4.33	30	22	32	75-125	20	M2, R2,
Arsenic	04/10/23 14:31	04/10/23 14:34	0.00	20.0	21.8	22.0	109	110	1	75-125	20	
Barium	04/10/23 14:31	04/10/23 14:34	94.0	20.0	122	120	140	130	2	75-125	20	M3,
Beryllium	04/10/23 14:31	04/10/23 14:34	0.00	20.0	20.0	20.0	100	100	0	75-125	20	
Cadmium	04/10/23 14:31	04/10/23 14:34	0.00	20.0	17.9	18.0	89	90	1	75-125	20	
Chromium	04/10/23 14:31	04/10/23 14:34	14.0	20.0	35.2	33.6	106	98	5	75-125	20	
Cobalt	04/10/23 14:31	04/10/23 14:34	9.80	20.0	30.1	28.3	102	92	6	75-125	20	
Copper	04/10/23 14:31	04/10/23 14:34	13.0	20.0	33.2	33.1	101	100	0	75-125	20	
Lead	04/10/23 14:31	04/10/23 14:34	3.90	20.0	21.8	22.0	89	90	1	75-125	20	
Molybdenum	04/10/23 14:31	04/10/23 14:34	0.00	20.0	17.7	17.8	89	89	1	75-125	20	
Nickel	04/10/23 14:31	04/10/23 14:34	9.60	20.0	31.3	28.8	108	96	8	75-125	20	
Selenium	04/10/23 14:31	04/10/23 14:34	0.00	20.0	17.0	17.4	85	87	2	75-125	20	
Silver	04/10/23 14:31	04/10/23 14:34	0.00	20.0	17.6	17.5	88	88	1	75-125	20	
Thallium	04/10/23 14:31	04/10/23 14:34	0.00	20.0	13.3	13.0	67	65	2	75-125	20	M2,
Vanadium	04/10/23 14:31	04/10/23 14:34	37.0	20.0	57.1	55.4	100	92	3	75-125	20	
Zinc	04/10/23 14:31	04/10/23 14:34	46.0	20.0	67.6	66.7	108	103	1	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

6010B/7471A

Laboratory Sample #: IR0406234 Date of Extrac

Laboratory Sa	mple #: IR040623	4	Date	of Extrac	tion: 0	4/06/23 1	2:00					
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Antimony	04/10/23 14:17	04/10/23 14:20		20.0	20.0	19.5	100	98	3	80-120	20	-
Arsenic	04/10/23 14:17	04/10/23 14:20		20.0	20.3	20.0	101	100	1	80-120	20	
Barium	04/10/23 14:17	04/10/23 14:20		20.0	20.6	20.3	103	101	1	80-120	20	
Beryllium	04/10/23 14:17	04/10/23 14:20		20.0	19.5	19.1	98	96	2	80-120	20	
Cadmium	04/10/23 14:17	04/10/23 14:20		20.0	18.8	18.3	94	91	3	80-120	20	
Chromium	04/10/23 14:17	04/10/23 14:20		20.0	21.2	20.5	106	102	3	80-120	20	
Cobalt	04/10/23 14:17	04/10/23 14:20		20.0	21.1	20.6	106	103	2	80-120	20	
Copper	04/10/23 14:17	04/10/23 14:20		20.0	20.4	19.7	102	99	3	80-120	20	
Lead	04/10/23 14:17	04/10/23 14:20		20.0	20.7	19.8	104	99	4	80-120	20	
Molybdenum	04/10/23 14:17	04/10/23 14:20		20.0	19.8	19.3	99	96	3	80-120	20	
Nickel	04/10/23 14:17	04/10/23 14:20		20.0	22.0	21.6	110	108	2	80-120	20	
Selenium	04/10/23 14:17	04/10/23 14:20		20.0	18.8	18.7	94	94	1	80-120	20	-
Silver	04/10/23 14:17	04/10/23 14:20		20.0	19.0	18.4	95	92	3	80-120	20	-
Thallium	04/10/23 14:17	04/10/23 14:20		20.0	20.3	20.4	101	102	0	80-120	20	-
Vanadium	04/10/23 14:17	04/10/23 14:20		20.0	19.8	19.1	99	96	4	80-120	20	-
Zinc	04/10/23 14:17	04/10/23 14:20		20.0	21.5	21.0	108	105	2	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27825-001 Date of Extraction: 04/06/23 16:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Mercury	04/11/23 10:11	04/11/23 10:13	0.00	1.00	0.907	0.907	91	91	0	80-120	20	-

Reference #: NAM 27827 Reporting units: ppm

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

6010B/7471A

Laboratory Sar	nple #: IR040623	5	Date o	of Extrac	tion: 04	4/06/23 1	16:00					
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Mercury	04/11/23 11:42	04/11/23 10:08		1.00	0.963	1.04	96	104	8	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

man ix opino (•				
Laboratory Sam	nple #: 27827-02	0	Date o	of Extrac	tion: 04	4/06/23 1	16:30						
Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers	
Mercury	04/11/23 13:24	04/11/23 13:26	0.13	1.00	0.959	0.973	83	84	1	80-120	20		

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: IR0406236 Date of Extraction: 04/06/23 16:30

6010B/7471A

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Mercury	04/11/23 10:58	04/11/23 11:00	 1.00	0.984	0.990	98	99	1	80-120	20	

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable.

27827-001	6010B	Arsenic	MS	
27827-001	6010B	Beryllium	MS	
27827-001	6010B	Chromium	MS	
27827-001	6010B	Cobalt	MS/MSD	
27827-001	6010B	Copper	MS	
27827-001	6010B	Molybdenum	MS/MSD	
27827-001	6010B	Nickel	MS	
27827-001	6010B	Selenium	MS/MSD	
27827-001	6010B	Thallium	MS/MSD	
27827-001	6010B	Vanadium	MS	
27827-024	6010B	Antimony	MS/MSD	
27827-024	6010B	Thallium	MS/MSD	

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

27827-001	6010B	Antimony	MS/MSD
27827-001	6010B	Barium	MS/MSD
27827-001	6010B	Lead	MS/MSD
27827-001	6010B	Zinc	MS/MSD
27827-024	6010B	Barium	MS/MSD

R2 = RPD/RSD exceeded the laboratory acceptance limit.

27827-024 6010B Antimony MS/MSD

R5 = MS/MSD RPD exceeded the laboratory acceptance limit. Recovery met acceptance criteria.

27827-007 8015B VFH MS/MSD

S1 = Surrogate recovery was above laboratory acceptance limits.

27827-024 8015B Octacosane MS/MSD

Definition of terms:

Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

Percent recovery of MS: {(MS-R1) / SP CONC} x100 %MS %MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100 RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result Percent recovery of LCS: {(LCS) / SP CONC} x100 %LCS %LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2 ACP %LCS Acceptable percent recovery range for Laboratory Control Samples. ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference D Detectable, result must be greater than zero

A checked box indicates a data qualifier was utilized and/or required for this analyte Qual

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see attached explanation.

ND Analyte Not Detected

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Lab Job No.:		F	6		-
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											∢ .						ROUND-TIME	
CUSTOMER INFOR	MATION			DJECT INFORMA							10B/7471. EPA 7199					Standard:	X	
Company: Ninyo & Moore Send Report To: Dennis Fee		Project Na		JSD 49th Street	PEA		4				10B/ EPA				_			
Email: dfee@ninyoandmoore.co	nm	Project Nu	ımber: 211	936010			┨	<u>в</u>			A 603 m bv		Σ		015E	72 Hour	*	
Address: 475 Goddard	2111		City / State):	Los Angeles, (- ^		199	6010	81A	32	oy EPA 	_	70-SI	30B	PA 8			
Irvine, CA 92618		EDD Regu		LOS Aligeles, C	JA		A 60	EPA	A 80	A 80	tals 	y PLN	A 82	A 82	by E	48 Hour	:	
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Customer Sample IDs		No. of Containers	Sample Date	Sample Time	Sample Matrix	Container Type	Lead by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by EPA	Asbestos by PLM	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,mo by EPA 8015B	24 Hour		
834-2.5		5	4/5/23	080	SS	4°70'82'/		- 4	Š/	-		◀	1 -	$\stackrel{>}{\smile}$		REMARKS	/ INSTRUCTIONS	4
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1346-15				1025						- /	1-					Hol		
839-0.S		1		1049		gozjav				XI	7	 			X	FIOL	·/	
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No. of Samples: V4	Method of Shipment:					Preservative:	'' 1	= lce	 2 :	= HCl	3 = HI	ا ا	4 =	H ₂ SO	LZ <u>~1</u>	5 = NaOH	6 = Other	
Relinquished By:	Date:		Received By:			Date					Sample			11250			-	
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Company: Ningo & moore		1	Company:	CACA			-	「丿	I		ntact:			On Ic	e: (Ye	s)No@	10°C	

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ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

Tustin, CA 92780

www.ocalab.com

4620 East Elwood Street, Suite 4

Phoenix, AZ 85040

) NO.: _	LTOUT	_ Page: _	2	of.
ANALYS	SIS REQUEST / PRESERVA	ATION		

Phone: (714) 832-00	64 Fax: (714) 832-0067	Phone: (480) 73	6-0960 Fax: (480)	736-0970												2010/01/2010 01/2010 01/2010 01/2010	JESTED DUND-TIME
CUSTOMER INFORMAT	ION	PRO	DJECT INFORMA	TION						71A	7199					A1-400-00-00-00-00-00-00-00-00-00-00-00-00	
Company: Ninyo & Moore	Project I	Name: LAU	JSD 49th Street	PEA		1				6010B/7471A	EPA 71					Standard:	X
Send Report To: Dennis Fee	Project N	Number: 211	.936010							6010	by EF				5B	72 Hour:	
Email: <u>dfee@ninyoandmoore.com</u>	PO #:]	10B	∢			ig H		Ϋ́SIM	В	1 801	72110017	
Address: 475 Goddard	Address	(City / State):	Los Angeles, C	Α		by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	3082	Title 22 Metals by EPA	Hexavalent Chromium by	Σ	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,mo by EPA 8015B	48 Hour:	
Irvine, CA 92618	EDD Req					EPA (y EP	EPA	PCBs by EPA 8082	Jeta	int Cl	Asbestos by PLM	EPA 8	EPA 8	d on		
Phone: (949) 753-7070 Fax:	Sampled No. of	By: Alleen	1 Chea / 51		Lee	d by	enic k	s by	s by	22 n	avale	estos	s by	s by	-g,d,r	24 Hour:	
Customer Sample IDs	Container		Sample Time	Sample Matrix	Container Type	Lead	Arse	900	PCB	Title	Hex:	Asbe	РАН	ΛOC	TPH	REMARKS /	NSTRUCTIONS
B39-10	5	4/5/23	1105	SS	G"STEELET				X	\times				X	X		
839-15			1105		V				X	\times				X	X		
838-0.5	1		1237		902 Jav				X	X					X		
838-2.5	5		1239	Насельно	902 jaur/ 440AS		•		X	X				X	X		
B38-5			A 35 125	3	GISLEGUE! 4 VOAS				X	X				∇	X		
838-10			1255	- Constitution	age-co-cells				X	X	·			\overrightarrow{X}	X		
B38-15			1258		V				X	X				$\stackrel{\checkmark}{}$	$\overline{\mathbf{x}}$		
B37-65			1326		902 yar				$\overrightarrow{\nabla}$	X					X		
PB37-25	5		1332		90270x/				Ż	X				X	X		
B37-5	C. C		342	- California	y steever			1	\overrightarrow{X}	∇				$\stackrel{\leftarrow}{\mathbf{Z}}$	∇		
B37-10 ,	CLC - Ga Alla	• .	1344						\boxtimes	$\langle \cdot \rangle$				$\overrightarrow{\mathbf{x}}$	$\langle \rangle$		
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B36-2.5	1		1423	1	1					$\overrightarrow{\nabla}$			X	\Rightarrow	$\widehat{\mathbf{X}}$		-
No. of Samples: M	ethod of Shipment:		·		Preservative:	1	= lce	2 :	= HCl	3:	= HN	r Oa	4 =	∠I H₂SO	<u>/</u> \	5 = NaOH	6 = Other
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	3002 Dow Avenue, Suite	532				ood Street, Su	ıite 4			A	NALY!	SIS RE	QUES	iT/PI	RESEF	ITAV	ON			
	Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067			nix, AZ 8 (480) 736	35040 6-0960 Fax: (480	0) 736-0970													JESTED DUND-TIME
CU:	STOMER INFORMATION				PRO	DJECT INFORM	ATION	100					471A	199					Standard:	X
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No. of Samples:	Method of	Shipment:		<u> </u>				Preservative:	1	= lce		= HCl		L						6 0 1
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Sample Receipt Report

Laboratory Reference	CENAM 27827		Logged in by	MM
Received:	04/05/23 17:51	Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delivered	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	Project Name:	LAUSD 49th Street	: PEA
# Shipping Containers:	. 2	Project #:	211936010	
Sample Quantity 35 Soil				
Chain of Custody		Complete 🗹	Incomplete	None
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)): Th	ermometer ID:	Adjusted Temp.:	
Shipping Intact		Yes 🗌	N/A 🗸	No 🗌
Shipping Custody Se	als Intact	Yes 🗌	N/A 🗸	No 🗌
Samples Intact		Yes 🗹		No 🗌
Sample Custody Sea	als Intact	Yes	N/A 🗸	No 🗌
Custody Seals Signe	d & Dated	Yes 🗌	N/A 🔽	No 🗀
Proper Test Containe	ers	Yes 🗸		No 🗌
Proper Test Preserva	ations	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace	Yes	N/A 🗸	No 🗌
Sample Labels		Complete 🗸	Incomplete	None
Sample Information I	Matches COC	Yes 🗸	N/A 🗌	No 🗌
Notes				
2 coolers at 3 a	nd 1 °C IR#3 co	orrection =+0 °C		
				·

Client Notified

On

ANALYTICAL REPORT

PREPARED FOR

Attn: Mark Noorani Orange Coast Analytical Inc 3002 Dow Ave, Suite 532 Tustin, California 92780 Generated 4/17/2023 4:29:15 PM

JOB DESCRIPTION

211936010

JOB NUMBER

570-134446-1

Eurofins Calscience 2841 Dow Avenue, Suite 100 Tustin CA 92780

Eurofins Calscience

Job Notes

This report is issued solely for the use of the person or company to whom it is addressed. Any use, copying or disclosure other than by the intended recipient is unauthorized. If you have received this report in error, please notify the sender and destroy this report immediately. This report shall not be reproduced except in full, without prior express written approval by the laboratory.

The data in the report relate to the field sample(s) as received by the laboratory and associated QC. All results have been reviewed and have been found to be compliant with laboratory and accreditation requirements, with the exception of the noted deviation(s). For questions, please contact the Project Manager.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization

Generated 4/17/2023 4:29:15 PM

Authorized for release by Sandy Tat, Project Manager I Sandy.Tat@et.eurofinsus.com (714)895-5494

Eurofins Calscience is a laboratory within Eurofins Environment Testing Southwest, LLC, a company within Eurofins Environment Testing Group of Companies
Page 2 of 15
4/17/2023

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QC Association Summary	9
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Sample Summary	13
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Definitions/Glossary

Client: Orange Coast Analytical Inc Job ID: 570-134446-1

Project/Site: 211936010

Glossary

DLC

J. J	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Orange Coast Analytical Inc

Project/Site: 211936010

Job ID: 570-134446-1

Job ID: 570-134446-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative 570-134446-1

Comments

No additional comments.

Receipt

The sample was received on 4/11/2023 11:15 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

HPLC/IC

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Orange Coast Analytical Inc Job ID: 570-134446-1

Project/Site: 211936010

Client Sample ID: B36-0.5

Lab Sample ID: 570-134446-1

No Detections.

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Client Sample Results

Client: Orange Coast Analytical Inc Job ID: 570-134446-1

Project/Site: 211936010

Method: SW846 7199 - Chromium, Hexavalent (IC)

Client Sample ID: B36-0.5 Lab Sample ID: 570-134446-1 Date Collected: 04/05/23 14:20

Matrix: Solid

Date Received: 04/11/23 11:15

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chromium, hexavalent ND 400 190 ug/Kg 04/15/23 02:00 04/15/23 09:46 10

QC Sample Results

Client: Orange Coast Analytical Inc Job ID: 570-134446-1

Project/Site: 211936010

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 570-319506/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 320685

Prep Batch: 319506 MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac Analyte **Prepared** 400 04/15/23 02:00 04/15/23 09:34 Chromium, hexavalent ND 190 ug/Kg

Lab Sample ID: LCS 570-319506/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Prep Batch: 319506 Analysis Batch: 320685** Spike LCS LCS %Rec Added Result Qualifier Unit D %Rec Limits Analyte 20100 19510 80 - 120 Chromium, hexavalent ug/Kg 97

Lab Sample ID: LCSD 570-319506/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 320685** Prep Batch: 319506 Spike LCSD LCSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Chromium, hexavalent 19800 19980 80 - 120 ug/Kg

Lab Sample ID: 570-134446-1 MS Client Sample ID: B36-0.5 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 320685

Prep Batch: 319506 Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits ND 19900 19300 75 - 125 Chromium, hexavalent ug/Kg

Lab Sample ID: 570-134446-1 MSD Client Sample ID: B36-0.5 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 320685

MSD MSD Sample Sample Spike %Rec **RPD** Analyte Result Qualifier Added Unit %Rec Limits RPD Limit Result Qualifier Chromium, hexavalent ND 20100 18920 94 75 - 125 2 25 ug/Kg

Eurofins Calscience

4/17/2023

Prep Batch: 319506

Prep Type: Total/NA

QC Association Summary

Client: Orange Coast Analytical Inc Project/Site: 211936010 Job ID: 570-134446-1

HPLC/IC

Prep Batch: 319506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134446-1	B36-0.5	Total/NA	Solid	3060A	
MB 570-319506/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 570-319506/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 570-319506/3-A	Lab Control Sample Dup	Total/NA	Solid	3060A	
570-134446-1 MS	B36-0.5	Total/NA	Solid	3060A	
570-134446-1 MSD	B36-0.5	Total/NA	Solid	3060A	

Analysis Batch: 320685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-134446-1	B36-0.5	Total/NA	Solid	7199	319506
MB 570-319506/1-A	Method Blank	Total/NA	Solid	7199	319506
LCS 570-319506/2-A	Lab Control Sample	Total/NA	Solid	7199	319506
LCSD 570-319506/3-A	Lab Control Sample Dup	Total/NA	Solid	7199	319506
570-134446-1 MS	B36-0.5	Total/NA	Solid	7199	319506
570-134446-1 MSD	B36-0.5	Total/NA	Solid	7199	319506

Lab Chronicle

Client: Orange Coast Analytical Inc Job ID: 570-134446-1

Project/Site: 211936010

Client Sample ID: B36-0.5 Lab Sample ID: 570-134446-1

Date Collected: 04/05/23 14:20
Date Received: 04/11/23 11:15

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.51 g	100 mL	319506	04/15/23 02:00	YO8L	EET CAL 4
Total/NA	Analysis	7199		10	4 mL	4 mL	320685	04/15/23 09:46	YO8L	EET CAL 4
	Instrumer	t ID: IC33								

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Orange Coast Analytical Inc Job ID: 570-134446-1

Project/Site: 211936010

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-24

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Method Summary

Client: Orange Coast Analytical Inc

Project/Site: 211936010

MethodMethod DescriptionProtocolLaboratory7199Chromium, Hexavalent (IC)SW846EET CAL 43060AAlkaline Digestion (Chromium, Hexavalent)SW846EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Job ID: 570-134446-1

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Sample Summary

Client: Orange Coast Analytical Inc Project/Site: 211936010

Job ID: 570-134446-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-134446-1	B36-0.5	Solid	04/05/23 14:20	04/11/23 11:15



Calscience



570-134446 Chain of Custody

			13444
CHAIN	OF CUST	CODY I	RECORD

DATE:				
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	ATORY CLIENT: Orange Coast								CLIE	NT PRO	JECT N	AME / N	UMBER	:						P.O. 1	NO.:							
ADDRE	SS:								21	19360	10									278	827							
	3002 Dow Ave, Ste 532								PRO	JECT C	ONTACT	:						-		SAME	PLER(S)): (PRINT	r)					
CITY:	Tustin			STATE:	CA	9278	0		Ма	ırk No	orani																	
	7148320064		kn@ocalab.co	m -											REC	UES	STEE) AN	ALY	'SES	3							
	ROUND TIME (Rush surcharges may apply				/				L		,	Ple	ease c	heck b	ox or t	ill in bl	ank as	need	ed.									
□ SA	AME DAY 24 HR GLOBAL ID:	48 HR □ 7	2 HR □ 5	DAYS 🏃	STAND		CODE:									Core					747X				1			
	DELT EDF		· · · · · · · · · · · · · · · · · · ·			200	CODE.									Terra Co					6020/7	9.8						
	AL INSTRUCTIONS:					served	ved	iltered	□ TPH(g) □ GRO	□ TPH(d) □ DRO	□ C6-C36 □ C6-C44		BTEX / MTBE □ 8260 □	VOCs (8260)	Oxygenates (8260)	Prep (5035) □ En Core □ T	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals □ 6010/747X □ 6020/747X	Cr(VI) □ 7196 7199 □ 218.6		OPPs by 8141				
LAB USE	SAMPLE ID	SAMF DATE	PLING	MATRIX	NO. OF	Unpreserved Preserved Field Filtered	F	HT L	п тРн	O TPF	TP!	TP.	TPHC	TPH	TEX	OCs	xyge	rep (NOC	estici	CBs	AHs	22 M)r(VI)	T0C	PPs t		
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	B36-0.5	470720	14.20			-			-													<u> </u>			-+			
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2.3/2.2 SCIZ

Login Sample Receipt Checklist

Client: Orange Coast Analytical Inc Job Number: 570-134446-1

Login Number: 134446 List Source: Eurofins Calscience

List Number: 1

Creator: Vitente, Precy

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>-</td>	N/A	-
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27827A

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/18/2023

Date Reported: 4/24/2023

Chain of Custody Received: <a>

Analytical Method: 6010B, 1311/6010B,

Mark Noorani, Laboratory Director

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27827A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at $^{\circ}$ C, on ice. 2 coolers at 3 and 1 $^{\circ}$ C IR#3 correction =+0 $^{\circ}$ C

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27827A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B34-2.5	27827-001	4/5/2023	4/5/2023	Soil

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27827A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B34-2.5			27827-001	4/5/2023 17:5	51 4/5/20	23 8:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	TCLP Lead	6010B	0.19	mg/l	04/19/23 10:35	04/20/23 10:49		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0419232	TCLP Lead	6010B	<0.080	mg/l	04/19/23 10:35	04/20/23 10:35		1	
B34-2.5			27827-001	4/5/2023 17:5	51 4/5/202	23 8:00	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	STLC Lead	6010B	11	mg/L	04/20/23 17:00	04/24/23 14:19		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBIR0420234	STLC Lead	6010B	<0.20	mg/L	04/20/23 17:00	04/24/23 14:06		1	

04/24/23

Reference #: NAM 27827A

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/6010B

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers	
TCLP Lead	04/20/23 10:43	04/20/23 10:46	0.19	0.400	0.587	0.569	99	95	3	75-125	20		

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: IR0419232 Date of Extraction: 04/19/23 10:35

1311/6010B

Laboratory Carr	ipic #. 1110-11020	_	Date	JI EXII GO	tion. o	1/10/20						
Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
TCLP Lead	04/20/23 10:37	04/20/23 10:40		0.400	0.387	0.379	97	95	2	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

1311/ STLC CCR

Laboratory Sar	nple #: 27827-00	1	Date of Extraction: 04/20/23 17:00									
Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
STLC Lead	04/24/23 14:14	04/24/23 14:17	11.0	1.00	11.3	11.7	30	70	3	75-125	20	M3,

1311/ STLC CCR

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
STLC Lead	04/24/23 14:09	04/24/23 14:11	 1.00	0.889	0.898	89	90	1	80-120	20	

Data Qualifier Definitions

Qualifier

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

27827-001

STLC CCR

STLC Lead

MS/MSD

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

7 of 7

see attached explanation.

ND Analyte Not Detected

n of Custody Record



ORANGE COAST ANALYTICAL, INC.

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Lab Job No.:		F	6		-
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Page:	of	.7

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Tustin, CA 9	2780 32-0064 Fax: (714) 832-0067		Phoenix, AZ 8	35040 6-0960 Fax: (480	1 726 0070											REC	QUESTED	
							5				₫ .						ROUND-TIME	
CUSTOMER INFORM	WATION			DJECT INFORMA							108/7471					Standard:	X	
Company: Ninyo & Moore Send Report To: Dennis Fee		Project Na		JSD 49th Street	PEA		4				10B/				_			
Email: dfee@ninyoandmoore.co	ım	Project Nu PO #:	ımber: 211	936010			-	<u>a</u>			A 601		Σ		015E	72 Hour	*	
Address: 475 Goddard	THE .		City / State):	Los Angeles, (- ^		108	6010	81A	32	oy EPA	_	70-SI	30B	PA 8			
Irvine, CA 92618		EDD Regu		LOS Aligeles, C	JA		A 60	EPA	A 80	A 80	tals	y PLN	A 82	A 82	by E	48 Hour	:	
Phone: (949) 753-7070 Fax	•	Sampled E	A . x .	1 Cheal	skylo	w Lee	oy EP	ic by	by EP	y EP	2 Me	os p	3y EP	oy EP	d,mc	2411		
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Company:			Company:								GW -	Groun	dwat	er		AQ - Aqueo	us	
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Company: Ningo & Moore		1	Company:	CACH			1	「ノ	1		Intact:			On Ic	e: (Ye	s)No@	<u> </u>	

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Lab Job No.: 27827

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of 3

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Tustin, CA 92780

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Phoenix, AZ 85040

Phone: (480) 736-0960 Fax: (480) 736-0970

ANALY	SIS REQUES	T / PRESER\	/ATION	
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CUSTOMER INFOR	MATION		PRC	DJECT INFORMA	TION						Title 22 Metals by EPA 6010B/7471A	7199					Standard:	Х
Company: Ninyo & Moore		Project Na	ame: LAU	SD 49th Street	PEA						7/80	PA 7						
Send Report To: Dennis Fee		Project Nu	umber: 211	936010							601(by E				8015B	72 Hour:	
Email: <u>dfee@ninyoandmoore.co</u>	<u>om</u>	PO #:]	10B	∢		EPA	ium		-SIM	В	٦ 80:		
Address: 475 Goddard		Address (0	City / State):	Los Angeles, C	Ά		by EPA 6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	3082	ls by	Hexavalent Chromium by EPA 7199	Σ	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,mo by EPA	48 Hour:	
Irvine, CA 92618		EDD Requ	ired:				PA (y EP	EPA	PA 8	leta	nt Cl	by P	PA 8	EPA 8	no b		
Phone: (949) 753-7070 Fax	Κ:		By: Alleen	Chea/SI		Lee	by	nic b	by	by E	22 N	vale	stos	by	by E	g,d,r	24 Hour:	
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No. of Samples:	Method of Shipment:		*			Preservative:	1	= Ice	2 :	= HCl	3 =	HNC) ₃	4 = 1	H₂SO,	1	5 = NaOH	6 = Other
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Page: 3

	3002 Dow Avenue, Suite	532				ood Street, Su	ıite 4			A	NALY!	SIS RE	QUES	iT/PI	RESEF	ITAV	ON			
	Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067			nix, AZ 8 (480) 736	35040 6-0960 Fax: (480	0) 736-0970													JESTED DUND-TIME
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f	oandmoore.com		PO #:	·						10B	∢		EPA	ium		-SIM	8	A 801		
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Sample Receipt Report

Laboratory Reference	CENAM 27827		Logged in by	MM
Received:	04/05/23 17:51	Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delivered	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	Project Name:	LAUSD 49th Street	: PEA
# Shipping Containers:	. 2	Project #:	211936010	
Sample Quantity 35 Soil				
Chain of Custody		Complete 🗹	Incomplete	None
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)): Th	ermometer ID:	Adjusted Temp.:	
Shipping Intact		Yes 🗌	N/A 🗸	No 🗌
Shipping Custody Se	als Intact	Yes 🗌	N/A 🗸	No 🗌
Samples Intact		Yes 🗸		No 🗌
Sample Custody Sea	als Intact	Yes	N/A 🗸	No 🗌
Custody Seals Signe	d & Dated	Yes 🗌	N/A 🔽	No 🗀
Proper Test Containe	ers	Yes 🗸		No 🗌
Proper Test Preserva	ations	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace	Yes	N/A 🗸	No 🗌
Sample Labels		Complete 🗸	Incomplete	None
Sample Information I	Matches COC	Yes 🗸	N/A 🗌	No 🗌
Notes				
2 coolers at 3 a	nd 1 °C IR#3 co	orrection =+0 °C		
				·

Client Notified

On

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27827B

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/25/2023

Date Reported: 4/26/2023

Chain of Custody Received: 🔽

Analytical Method: 6010B,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27827B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at $^{\circ}$ C, on ice. 2 coolers at 3 and 1 $^{\circ}$ C IR#3 correction =+0 $^{\circ}$ C

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27827B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B34-5	27827-002	4/5/2023	4/5/2023	Soil

Lab Reference #: NAM 27827B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample	ID		Lab Sample Number	Date Received	Date Sample	ed	Matrix	
B34-5			27827-002	4/5/2023 17:5	1 4/5/202	23 8:20	Soil	
	<u>ANALYTE</u>	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>
	Lead	6010B	3.2	mg/kg	04/25/23 12:45	04/26/23 12:49		1
Method Blank	(Soil	
MB ID	<u>ANALYTE</u>	EPA Method	<u>Result</u>	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>
MBHV0424232	Lead	6010B	<0.80	mg/kg	04/24/23 13:30	04/25/23 11:50		1

QA/QC Report for Metals

Reference #: NAM 27827B

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B

Laboratory Sample #: 27859-001 Date of Extraction: 04/24/23 13:30

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Lead	04/25/23 12:00	04/25/23 12:10	62.0	20.0	30.5	30.0	0	0	2	75-125	20	M3,

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: HV0424232 Date of Extraction: 04/24/23 13:30

6010B

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Lead	04/25/23 11:54	04/25/23 11:57	 20.0	18.6	17.3	93	86	7	80-120	20	

Data Qualifier Definitions

Qualifier

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

27859-001

6010B

Lead

MS/MSD

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

Miriam Molina

From:

Dennis Fee <dfee@ninyoandmoore.com>

Sent:

Tuesday, April 25, 2023 11:49 AM

To:

Miriam Molina

Cc:

ocalab@sbcglobal.net

Subject:

RE: Report and Invoice-NAM 27827 LAUSD 49th Street PEA Rev1.0 (CRVI INCLUDED)

Hi Miriam,

I have one more round of analyses for 49th Street PEA. Please analyze the following samples on 2-day rush TAT so we have results by end of day Thursday:

B4-W2-0.5: Arsenic STLC & TCLP -27815-021

B34-5: Lead by EPA 6010B - 27877-

Thanks,



Minyo . Maore

Dennis Fee, EIT

Senior Project Engineer

Ninyo & Moore | Geotechnical & Environmental Sciences Consultants 475 Goddard, Suite 200 | Irvine, CA 92618 949.753.7070 (x12210) | 714.926.4048 (Cell)

35+ Years of Quality Service | ninyoandmoore.com







From: Miriam Molina <miriamm@ocalab.com>

Sent: Tuesday, April 18, 2023 11:00 AM

To: Dennis Fee <dfee@ninyoandmoore.com>

Cc: ocalab@sbcglobal.net

Subject: RE: Report and Invoice-NAM 27827 LAUSD 49th Street PEA Rev1.0 (CRVI INCLUDED)

Sorry counted wrong- we'll aim for Friday but due to the rotation and prep time it looks we'll have the results on Monday.



ORANGE COAST ANALYTICAL, INC.

Miriam Molina | Project Manager

3002 Dow Ave. Ste. 532 Tustin, CA, 92780

Office: 714-832-0064 Cell: 714-721-5914 (Call/Text)

miriamm@ocalab.com

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From: Dennis Fee [mailto:dfee@ninyoandmoore.com]

Sent: Tuesday, April 18, 2023 10:54 AM

To: Miriam Molina <miriamm@ocalab.com>

Cc: ocalab@sbcglobal.net

Subject: RE: Report and Invoice-NAM 27827 LAUSD 49th Street PEA Rev1.0 (CRVI INCLUDED)

Analysis Request & (

n of Custody Record

ORANGE COAST ANALYTICAL, INC.

www.ocalab.com

Lab Job No .:

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5002 Dow Avenue, Suite 532		4620 East Elw	ood Street, Sui	te 4		1	ANA	L1212 K	EQUES	SI / Pr	KESEK	(VAII	ON				
Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067	7	Phoenix, AZ 8 Phone: (480) 736	5040 5-0960 Fax: (480)	736-0970												JESTED DUND-TIME	
CUSTOMER INFORMATION		PRO	JECT INFORMA	TION					171A	199					Standard:	Х	1
Company: Ninyo & Moore	Project N	lame: LAU	SD 49th Street	PEA					6010B/7471A	EPA 7199							
Send Report To: Dennis Fee	Project N	lumber: 211	936010						6010	þ				158	72 Hour:		
Email: <u>dfee@ninyoandmoore.com</u>	PO #:						108	۲ .	Title 22 Metals by EPA	Hexavalent Chromium		PAHs by EPA 8270-SIM	8	TPH-g,d,mo by EPA 8015B			
Address: 475 Goddard	Address ((City / State):	Los Angeles, C	A		6010B	A 60	8082	ls by	hron	N]	8270	8260	y EP	48 Hour:		
Irvine, CA 92618	EDD Requ					PA	Arsenic by EPA 6010B	OCHS BY EPA 8081A	Meta	entC	Asbestos by PLM	EPA	VOCs by EPA 8260B	mo b			
Phone: (949) 753-7070 Fax:	Sampled	By: Aleer	1 Cheal		ar Lee	Lead by	anic l	s by	22 1	avale	estos	s by	s by	.B.d,	24 Hour:		
Customer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix	Container Type	Lead	Arse	PCB	Title	Hex	Asb	PAH	VOC	TPH	REMARKS / I	NSTRUCTIONS	
B34-2.5	5	4/5/23	0800	SS	902 jar/				X				X	\times]
B34-5			0820												HOLT	0	1
B34-10			0830					<	X				X	X	100	ACHE/2	3
835 - 2.5			0910		1			2	X				X	V			1
B35-5			0923		6"Sleeve/								-	1	HOLI	>	1
B35-10	1		0925		1/				X				AX	X	- Hotel	D ACUS	23
B46-0.5	1		0458		902 jar				V					X		1.0	
B46-2.5	5		1000		giz jar/				X				V	V			
B46-5			1013		4 VOAS				X				\bigcirc	V	2013	AC WS	23
B46-10			1015		1 0045				1				\bigcirc	\Rightarrow		ACHI	
B46-15			1025												HOLI		1
B39-0.5	1		1049		902 jav			V	V					V	HOL		1
B39 - 2.5	5		1052		902 jar/		+	$\overline{\nabla}$						0			1
B39-5	V		1100	1	G" Sleevel		\Box	X	X				X	\Diamond			1
No. of Samples: 14 Method of Shipment:	7				Preservative:	1	= Ice	2 = H	3	= HN	03	4=	H ₂ SC) _a	5 = NaOH	6 = Other	1
Relinquished By: Date:		Received By:			Dat	e:			1	mple I							1
Time:		1.0			Tim	e:									DW - Drinkir	g water	
Company:		Company:							9	6W - G	Groun	idwat	ter		AQ - Aqueou	IS	
Relinquished By: Date:		Received By:			Dat	e:			v	vw -	Wast	ewat	er		SS - Soil / So	lid	
Time:					Tim	e:									33 - 3011 / 30	iu	-
Company:		Company:							3	W - S1	torm	water			OT - Other	Zcool.	dv
Relinquished By: Date: 4/9 Time: 17		Received For Company:			Date Tim	-1	15	123		mple I	Integr	rity:/	On I	ce: A	es) No @	3,10	1

Company:

Analysis Request &

n of Custody Record



ORANGE COAST ANALYTICAL, INC.

www.ocalab.com

Lab Job No.:

ANALYSIS REQUEST / PRESERVATION

Page: 2

3002 Dow Avenue, Suite 532

Tustin, CA 92780 Phoenix, AZ 85040

4620 East Elwood Street, Suite 4

Phone: (714) 832-0064	Fax: (714) 832-0067		Phone: (480) 736	-0960 Fax: (480	736-0	0970												TURN-ARO	
CUSTOMER INFORMATIO	N		PRO	JECT INFORMA	TION	1						171A	199					Standard:	X
Company: Ninyo & Moore	Proje	ct Na	me: LAU	SD 49th Street	PEA							6010B/7471A	PA7					2,41,00,07	
Send Report To: Dennis Fee	Proje	ct Nu	umber: 211	936010								6010	by E				8015B	72 Hour:	
Email: <u>dfee@ninyoandmoore.com</u>	PO #:							9	10B	A		EPA	nium		-SIM	B	A 80		
Address: 475 Goddard	Addre	ess (C	City / State):	Los Angeles, O	A			6010B	Arsenic by EPA 6010B	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by	Hexavalent Chromium by EPA 7199	NJ.	PAHs by EPA 8270-SIM	EPA 8260B	by EPA	48 Hour:	
Irvine, CA 92618	EDD F	_						EPA	oy EP	EPA	EPA	Meta	entC	by F	EPA	EPA	mo b		
Phone: (949) 753-7070 Fax:	Samp No.		By: Aileen				Lee	Lead by EPA	enic l	s by	s by	22 1	avale	Asbestos by PLM	s by	VOCs by	TPH-g,d,mo	24 Hour:	
Customer Sample IDs	Conta	iners	Sample Date	Sample Time		mple latrix	Container Type	Lea	Arse	OCP	PCB	Title	Hex	Asb	PAH	700	ТРН	REMARKS / IN	STRUCTIONS
B39-10	5		4/5/23	1105	S	S	G"Sleevel		7		X	\times				X	X		
B39-15	-			1105			1				X	X				X	X	11	
838-0.5	1			1237			90z jar				X	X					X		
B38-2.5	5	5		1239			902 jour/				X	X				X	X		
B38-5				AC 129	3		4 VDAS			-	X	X				V	V		
B38-10				1255							X	X				V	\Diamond		
B38-15		,		1258			1				X	X				\Diamond	$\langle \rangle$		
B37-0.5	1			1326			902 yar				V	X					X		
B37-2.5	5)		1332							X	×				X	$\stackrel{\checkmark}{\times}$		
B37-5				1342			902 Jar/ 440As 611 Steevel 4 VOAS				X	X				Z	X		
B37-10 .			17.5	1344			1				X	$\overrightarrow{\chi}$				×	\Diamond		
B37-15		,		1346			902 Jar/				X	X				X	\forall		
B36-0.5		0		1420	511		9028402 par				-	X	X		X	V	\Diamond		
B36-2.5	1		1	1423	1	1	11					X	_		X	X	X		
No. of Samples: 14 Met	hod of Shipment:		4				Preservative:	1	= Ice	2	= HC	3	= HN	102	4=	H ₂ SO		5 = NaOH	6 = Other
Relinquished By:	Date:		Received By:				Date	e:					nple			2		A Fall	
	Time:						Time	e:										DW - Drinkin	Water
Company:			Company:									G	W - 0	Groun	dwat	er		AQ - Aqueous	,
Relinquished By:	Date:		Received By:				Date	a ·				V	VW - 1	Wast	ewate	er			
	Time:						Time		*									SS - Soil / Soli	d
Company:			Company:									S	W - S	torm	water			OT - Other	
Relinquished By:	Date: 4/5/23		Received For C	CA BY:			Date	: 4	16	17	2	San	nple I	Intoc	ritur	-		2.2.1.2.0.0	
Ollu Un	Time:		1/	/							/	Jdl	iibie	integi	ity.				
Company: NMYO & NOOVE	175		Company:	MARA			Time	e: 1	TO	1	1 1	Inta	act:			On Io	e: Ye	s/No @ _	°C
1		- 1	(2)	()-([]															

Analysis Request & (

4620 East Elwood Street, Suite 4

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ORANGE COAST ANALYTICAL, INC.

3002 Dow Avenue, Suite 532

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Lab Job No.: 778

ANALYSIS REQUEST / PRESERVATION

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-	Tustin, CA 92780 Phone: (714) 832-0064 Fax: (714) 832-0067		Phoenix, AZ 85 Phone: (480) 736		736-0970												REQUESTED TURN-AROUND-TIME
CI	USTOMER INFORMATION		PRO.	JECT INFORMA	TION						71A	7199					Standard: X
Company: Ninyo	& Moore	Project N	ame: LAUS	D 49th Street	PEA						B/74	EPA 73					Stalldard
Send Report To:	Dennis Fee	Project N	umber: 2119	36010							5010	by EF				58	72 Hour:
Email: <u>dfee@nin</u>	nyoandmoore.com	PO #:						108	d		EPA	ium		SIM	m	801	Ta tiouti
	Goddard e, CA 92618	Address (Los Angeles, C	CA		Lead by EPA 6010B	Arsenic by EPA 60108	OCPs by EPA 8081A	PCBs by EPA 8082	Title 22 Metals by EPA 6010B/7471A	Hexavalent Chromium	Asbestos by PLM	PAHs by EPA 8270-SIM	VOCs by EPA 8260B	TPH-g,d,mo by EPA 80158	48 Hour:
Phone: (949) 753-7				Chea/s	skyla	-Lee	oy EP	ic by	by EF	oy EP	2 Me	alent	tos b	эу ЕР	oy EP	d,mc	2411
Customer Sample ID:		No. of Containers	Sample Date	Sample Time	Sample	Container Type	ead t	rsen	CPs	CBs b	itle 2	exav	spest	AHS !	ocs l	H-B,	24 Hour:
836-5		6	4/5/23	1440	Matrix 55	90284027W		4	. 0	Δ.	F	I	4	4	>	F	REMARKS / INSTRUCTIONS
B36-10		T.	1	1442	1	4 NOAS									-	\vdash	HOLD
B43-0.5		Y		1515		902 jar	-			V	V			-		1	HOLD
B43-2.5		5		1520		902 ar/				\Diamond	\Diamond					\Diamond	
B43-5		1				902 pr/ 4 NOAS 6"Slower 4 NOAS			-	0	\Diamond				X		
B43-10				1528		"4 VOAS"				\Diamond	$\stackrel{\times}{\rightarrow}$					X	
1843-15				1530		CIGZ Vari				X	\Diamond				X	X	
1012-12		W	V	1535	V	4 VDAS				X	$^{\sim}$				X	X	
		-															
			-	C 24	5/27												
				1/	3/2												
							1									11	
		-									1						
No. of Samples:	Method of Shipment:					Preservative:	1	= Ice	2	= HC	3	= HN	0,	4=	H ₂ SC),	5 = NaOH 6 = Other
Relinquished By:	Date:		Received By:			Date	2:					nple f			-		
	Time:		1 7 1			Time											DW - Drinking Water
Company:			Company:								G	W - G	iroun	dwat	er		AQ - Aqueous
Relinquished By:	Date:		Received By:			Date	٠.				W	/W - \	Waste	ewate	er		
	Time:					Time								2112111			SS - Soil / Solid
Company:			Company:			time					S	W - St	ormv	vater			OT - Other
Relinquished By:	n Date: 4/5	122	Received For Q	€A By:		not-	. 11	15	17	2	C-			6			7.010
Ollu (lu Time:	1-5	9/1	7		Date	. 4	151	-	/	San	nple I	ntegr	ity:			
Company: N.N.		1	Company:	NACO		Time	17	151			Inta	act:			On Id	ce: Ye	es/No @ °C
By signing above client sel	Innuladore responsibility of	1	Tanadani, (i)	CACA													

Sample Receipt Report

	Augus 74 10-	1.3625.000.00	Linear Commen	
Received:	04/05/23 17:51	Company Name:	Ninyo & Moore	
Method of Shipment: Shipping Container:	Hand Delivered	Project Manager: Project Name:	Mr. Dennis Fee	DΕΛ
# Shipping Containers:	Cooler 2	Project #:	LAUSD 49th Street P 211936010	EA
Sample Quantity 35 Soil	-		211000010	
Chain of Custody		Complete 🗸	Incomplete	None [
Samples On Ice		Yes, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C): Ther	mometer ID:	Adjusted Temp.:	
Shipping Intact		Yes 🗌	N/A 🗹	No 🗌
Shipping Custody Se	eals Intact	Yes 🗌	N/A 🗹	No 🗌
Samples Intact		Yes 🗸		No 🗌
Sample Custody Sea	als Intact	Yes 🗌	N/A 🔽	No 🗌
Custody Seals Signe	d & Dated	Yes 🗌	N/A 🔽	No 🗌
Proper Test Containe	ers	Yes 🗹		No 🗌
Proper Test Preserva	ations	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗹		No 🗌
VOAs Have Zero He	adspace	Yes 🗌	N/A 🗹	No 🗌
Sample Labels		Complete 🗹	Incomplete	None [
Sample Information I	Matches COC	Yes 🗸	N/A 🗌	No 🗌

Ву

On

Client Notified

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2023 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27828

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 4/5/2023

Date Reported: 4/14/2023

Chain of Custody Received: <a>

Analytical Method: 8015B, 8260B, 6010B, 7471A,

Mark Noorani, Laboratory Director

Lab Reference #: NAM 27828 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at $^{\circ}$ C, on ice. 2 coolers at 0 and 1 $^{\circ}$ C IR#3 correction =+0 $^{\circ}$ C

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference #: NAM 27828 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
WC-040523	27828-001	4/5/2023	4/5/2023	Soil

Lab Reference #: NAM 27828 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Extractable Fuel Hydrocarbons (EPA 8015B)

				<u> </u>		
Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
WC-040523	27828-001	4/5/2023 17:51	4/5/2023 15:55	4/6/2023 16:00	4/13/2023 18:07	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	150		Octa	cosane	121	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
WC-040523	27828-001	4/5/2023 17:51	4/5/2023 15:55	4/6/2023 16:00	4/13/2023 18:07	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	880		Octa	cosane	121	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
Method Blank	MBLY0406233			4/6/2023 16:00	4/11/2023 18:06	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
DROs	<10		Octa	cosane	104	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	
Method Blank	MBLY0406233			4/6/2023 16:00	4/11/2023 18:06	Soil
<u>ANALYTE</u>	mg/kg		Surro	ogate:	% RC*	
MROs	<50		Octa	cosane	104	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	Recovery:	40-160 %	

Lab Reference #: NAM 27828 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
WC-040523	27828-001	4/5/2023	4/5/2023	4/11/2023	4/11/2023	Soil
		17:51	15:55	9:30	12:26	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	% RC*	
GROs ¹	<0.20		α-α-	α -Trifluorotolu	iene 95	
Dilution Factor: 1			* Acc	ceptable Reco	overy: 32-153 %	
Data Qualifiers: None						
Method Blank	MBLY0411231			4/11/2023	4/11/2023	Soil
				9:30	10:44	
<u>ANALYTE</u>	mg/kg		Surr	ogate:	<u>% RC*</u>	
GROs ¹	<0.20		α-α-	α-Trifluorotolu	iene 93	
<u>Dilution Factor:</u> 1 <u>Data Qualifiers:</u> None			* Acc	ceptable Reco	overy: 32-153 %	

Lab Reference #: NAM 27828

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Volatile Organics by GC/MS (EPA 8260B)

		,	•	,		
Client Sample ID	Lab Sample Number	e Date Received	Date I Sampled	Date Extracted	Date Analyzed	Matrix
WC-040523	27828-001	4/5/2023	4/5/2023	4/6/2023	4/7/2023	Soil
		17:51	15:55	11:45	16:32	
<u>ANALYTE</u>	CAS#	μg/kg	ANALYTE		CAS#	<u>μg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichle	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene	,	100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	< 5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ene	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolu	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e		1634-04-4	< 5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	oride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzei	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	nloroethane	630-20-6	<2.5
Chloroethane	75-00-3	< 5.0	1,1,2,2-Tetrach		79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe		127-18-4	<2.5
Chloromethane	74-87-3	< 5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorol	benzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorol		120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloro		71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	< 5.0	1,1,2-Trichloro		79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene	е	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoror	methane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichloro	propane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	lbenzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	lbenzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes	5	179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
	10061-01-5	<2.5				
	% RC Acc	ceptable % RC	Dilution Fa	actor: 1		
Dibromofluoromethane:	88	65-130 %		ifiers: None		
Dibrofficillorgromemane.						
Toluene-d8:	84	58-130 %	<u> Data Quai</u>	<u></u>		

Lab Reference #: NAM 27828

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Volatile Organics by GC/MS (EPA 8260B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBHT040623	3		4/6/2023	4/7/2023	Soil
Motifod Blaim	11.2111010020			11:45	11:34	00
ANALYTE	CAS#	μg/kg	ANALYTE		CAS#	<u>μg/kg</u>
t-Amyl methyl ether (TAME)	994-05-8	<10	trans-1,3-Dichlo	oropropene	10061-02-6	<2.5
Benzene	71-43-2	<2.0	Diisopropyl eth		108-20-3	<10
Bromobenzene	108-86-1	<2.5	Ethyl t-butyl eth		637-92-3	<10
Bromochloromethane	74-97-5	<2.5	Ethylbenzene		100-41-4	<2.5
Bromodichloromethane	75-27-4	<2.5	Hexachlorobuta	adiene	87-68-3	< 5.0
Bromoform	75-25-2	<2.5	Isopropylbenze	ne	98-82-8	<2.5
Bromomethane	74-83-9	<10	4-Isopropyltolue	ene	99-87-6	<2.5
tert-Butyl alcohol (TBA)	75-65-0	<50	Methyl t-butyl e	ther (MTBE)	1634-04-4	< 5.0
n-Butylbenzene	104-51-8	<2.5	Methylene chlo	ride	75-09-2	<10
sec-Butylbenzene	135-98-8	<2.5	Naphthalene		91-20-3	<2.5
tert-Butylbenzene	98-06-6	<2.5	n-Propylbenzer	ne	103-65-1	<2.5
Carbon tetrachloride	56-23-5	<2.5	Styrene		100-42-5	<2.5
Chlorobenzene	108-90-7	<2.5	1,1,1,2-Tetrach	loroethane	630-20-6	<2.5
Chloroethane	75-00-3	<5.0	1,1,2,2-Tetrach	loroethane	79-34-5	<2.5
Chloroform	67-66-3	<2.5	Tetrachloroethe	ene	127-18-4	<2.5
Chloromethane	74-87-3	< 5.0	Toluene		108-88-3	<2.5
2-Chlorotoluene	95-49-8	<2.5	1,2,3-Trichlorob	enzene	87-61-6	<2.5
4-Chlorotoluene	106-43-4	<2.5	1,2,4-Trichlorob	enzene	120-82-1	<2.5
Dibromochloromethane	124-48-1	<2.5	1,1,1-Trichloroe	ethane	71-55-6	<2.5
1,2-Dibromo-3-chloropropane	96-12-8	< 5.0	1,1,2-Trichloroe	ethane	79-00-5	<2.5
1,2-Dibromoethane	106-93-4	<2.5	Trichloroethene)	79-01-6	<2.5
Dibromomethane	74-95-3	<2.5	Trichlorofluoron	nethane	75-69-4	< 5.0
1,2-Dichlorobenzene	95-50-1	<2.5	1,2,3-Trichlorop	oropane	96-18-4	<2.5
1,3-Dichlorobenzene	541-73-1	<2.5	1,2,4-Trimethyl	benzene	95-63-6	<2.5
1,4-Dichlorobenzene	106-46-7	<2.5	1,3,5-Trimethyl	benzene	108-67-8	<2.5
Dichlorodifluoromethane	75-71-8	<2.5	Vinyl Chloride		75-01-4	<2.5
1,1-Dichloroethane	75-34-3	<2.5	m- & p-Xylenes		179601-23-1	< 5.0
1,2-Dichloroethane	107-06-2	<2.5	o-Xylene		95-47-6	<2.5
1,1-Dichloroethene	75-35-4	<2.5				
cis-1,2-Dichloroethene	156-59-2	<2.5				
trans-1,2-Dichloroethene	156-60-5	<2.5				
1,2-Dichloropropane	78-87-5	<2.5				
1,3-Dichloropropane	142-28-9	<2.5				
2,2-Dichloropropane	594-20-7	<2.5				
1,1-Dichloropropene	563-58-6	<2.5				
cis-1,3-Dichloropropene	10061-01-5	<2.5				
Surrogate:	% RC Acce	eptable % RC	Dilution Fa	ctor: 1		
Dibromofluoromethane:	87 6	65-130 %	<u>Da</u> ta Quali	fiers: None		
Toluene-d8:		58-130 %				
4-Bromofluorobenzene:		10-135 %				

Lab Reference #: NAM 27828

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

ient Sample ID	Lab Sample Number	Date Received	Date Sample		Matrix	
WC-040523	27828-001	4/5/2023 17:5	51 4/5/202	23 15:55	Soil	
ANALYTE EPA Meth	od Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>
Antimony 6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Arsenic 6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Barium 6010B	120	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Beryllium 6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Cadmium 6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Chromium 6010B	12	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Cobalt 6010B	9.5	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Copper 6010B	16	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Lead 6010B	15	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Mercury 7471A	0.34	mg/kg	04/06/23 16:30	04/11/23 11:36		1
Molybdenum 6010B	<1.0	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Nickel 6010B	11	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Selenium 6010B	<4.8	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Silver 6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Thallium 6010B	<2.0	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Vanadium 6010B	37	mg/kg	04/06/23 12:00	04/12/23 10:07		1
Zinc 6010B	64	mg/kg	04/06/23 12:00	04/12/23 10:07		1

Lab Reference #: NAM 27828

Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBIR0406234	Antimony	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Arsenic	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Barium	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Beryllium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Cadmium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Chromium	6010B	<0.50	mg/kg	04/06/23 12:00	04/12/23 14:06		1	
MBIR0406234	Cobalt	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Copper	6010B	<5.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Lead	6010B	<0.80	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406236	Mercury	7471A	<0.10	mg/kg	04/06/23 16:30	04/11/23 10:56		1	
MBIR0406234	Molybdenum	6010B	<1.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Nickel	6010B	<1.0	mg/kg	04/06/23 12:00	04/12/23 14:06		1	
MBIR0406234	Selenium	6010B	<4.8	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Silver	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Thallium	6010B	<2.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Vanadium	6010B	<0.50	mg/kg	04/06/23 12:00	04/10/23 14:14		1	
MBIR0406234	Zinc	6010B	<5.0	mg/kg	04/06/23 12:00	04/10/23 14:14		1	

QA/QC Report

for

Extactable Fuel Hydrocarbons (EPA 8015B/8015M)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/6/2023 16:00 <u>Date of Analysis:</u> 4/11/2023 19:32 <u>Dup Date of Analysis:</u> 4/11/2023 19:53

Laboratory Sample #: 27829-001

MS/MSD Qualifiers: R4,

Reference #: NAM 27828

Analyte	R	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
EFH as Diesel	0.00	1000	1040	1300	104	130	22	8-193	20	~

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
Octacosane	100	128		99	98		40-160

Laboratory Control Sample

 Date of Extraction:
 4/6/2023
 16:00

 Date of Analysis:
 4/11/2023
 18:49

 Dup Date of Analysis:
 4/11/2023
 19:10

 Laboratory Sample #:
 LY0406233

 LCS Qualifiers:
 None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
						_			
EFH as Diesel	1000	1030	1010	103	101	2	17-180	42	

QA/QC Report

for

Volatile Fuel Hydrocarbons (EPA 8015B)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/11/2023 9:30

<u>Date of Analysis:</u> 4/11/2023 11:45

<u>Dup Date of Analysis:</u> 4/11/2023 12:06

<u>Laboratory Sample #:</u> 27828-001 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27828

		SPC						ACP	ACP		
Analyte	R	CONC	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual	
VFH as Gasoline	0.00	0.250	0.123	0.165	49	66	29	20-144	50		

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
α - α - α -Trifluorotoluene	82	84		111	86		32-153

Laboratory Control Sample

 Date of Extraction:
 4/11/2023
 9:30

 Date of Analysis:
 4/11/2023
 11:04

 Dup Date of Analysis:
 4/11/2023
 11:25

 Laboratory Sample #:
 LY0411231

 LCS Qualifiers:
 None

Analvte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
,									
VFH as Gasoline	0.250	0.168	0.196	67	78	15	38-130	27	

QA/QC Report for

Volatile Organic Compounds (8260B)

Reporting Units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

<u>Date of Extraction:</u> 4/7/2023 9:26 <u>Date of Analysis:</u> 4/7/2023 12:54 <u>Dup Date of Analysis:</u> 4/7/2023 13:14

<u>Laboratory Sample #:</u> 27829-010 <u>MS/MSD Qualifiers:</u> None <u>Reference #:</u> NAM 27828

		Spike						ACP	ACP	
Analyte	R	Conc.	MS	MSD	%MS	%MSD	RPD	%MS	RPD	Qual
Benzene	0.00	10.0	9.55	9.34	96	93	2	70-138	20	
Chlorobenzene	0.00	10.0	9.67	9.48	97	95	2	70-132	20	
1,1-Dichloroethene	0.00	10.0	7.13	7.04	71	70	1	46-130	20	
Toluene	0.00	10.0	9.05	8.78	91	88	3	70-130	20	
Trichloroethene	0.00	10.0	8.93	8.69	89	87	3	70-135	20	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Dibromofluoromethane	88	84	
Toluene-d8	86	80	
4-Bromofluorobenzene	89	79	

LCS	LCSD	Qual
88	90	
86	87	
89	91	

ACP % R	С
65-130	
58-130	
40-135	

Laboratory Control Sample (LCS) / Laboratory Control Sample Duplicate (LCSD)

 Date of Extraction: 4/7/2023
 9:26

 Date of Analysis: 4/7/2023
 12:14

 Dup Date of Analysis: 4/7/2023
 12:34

<u>Laboratory Sample #:</u> HT0407231 <u>LCS/LCSD Qualifiers:</u> None

	Spike						ACP	ACP	
Analyte	Conc.	LCS	LCSD	%LCS	%LCSD	RPD	%LCS	RPD	Qual
Benzene	10.0	9.99	9.59	100	96	4	70-134	20	
Chlorobenzene	10.0	10.3	9.85	103	99	4	70-130	20	
1,1-Dichloroethene	10.0	7.82	7.41	78	74	5	48-130	20	
Toluene	10.0	9.85	9.49	99	95	4	70-130	20	
Trichloroethene	10.0	9.71	9.00	97	90	8	70-132	20	

QA/QC Report for Metals

Reference #: NAM 27828 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27827-024 Date of Extraction: 04/06/23 12:00

	MS Date	MSD Date		SPC			%	%		ACP	ACP	
Analyte	of Analysis	of Analysis	R1	CONC	MS	MSD	MS	MSD	RPD	%MS	RPD	Qualifiers
Antimony	04/10/23 14:31	04/10/23 14:34	0.00	20.0	6.00	4.33	30	22	32	75-125	20	M2, R2,
Arsenic	04/10/23 14:31	04/10/23 14:34	0.00	20.0	21.8	22.0	109	110	1	75-125	20	
Barium	04/10/23 14:31	04/10/23 14:34	94.0	20.0	122	120	140	130	2	75-125	20	M3,
Beryllium	04/10/23 14:31	04/10/23 14:34	0.00	20.0	20.0	20.0	100	100	0	75-125	20	
Cadmium	04/10/23 14:31	04/10/23 14:34	0.00	20.0	17.9	18.0	89	90	1	75-125	20	
Chromium	04/10/23 14:31	04/10/23 14:34	14.0	20.0	35.2	33.6	106	98	5	75-125	20	
Cobalt	04/10/23 14:31	04/10/23 14:34	9.80	20.0	30.1	28.3	102	92	6	75-125	20	
Copper	04/10/23 14:31	04/10/23 14:34	13.0	20.0	33.2	33.1	101	100	0	75-125	20	
Lead	04/10/23 14:31	04/10/23 14:34	3.90	20.0	21.8	22.0	89	90	1	75-125	20	
Molybdenum	04/10/23 14:31	04/10/23 14:34	0.00	20.0	17.7	17.8	89	89	1	75-125	20	
Nickel	04/10/23 14:31	04/10/23 14:34	9.60	20.0	31.3	28.8	108	96	8	75-125	20	
Selenium	04/10/23 14:31	04/10/23 14:34	0.00	20.0	17.0	17.4	85	87	2	75-125	20	
Silver	04/10/23 14:31	04/10/23 14:34	0.00	20.0	17.6	17.5	88	88	1	75-125	20	
Thallium	04/10/23 14:31	04/10/23 14:34	0.00	20.0	13.3	13.0	67	65	2	75-125	20	M2,
Vanadium	04/10/23 14:31	04/10/23 14:34	37.0	20.0	57.1	55.4	100	92	3	75-125	20	
Zinc	04/10/23 14:31	04/10/23 14:34	46.0	20.0	67.6	66.7	108	103	1	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

6010B/7471A

Laboratory Sample #: IR0406234 Date

Date of Extraction: 04/06/23 12:00

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Antimony	04/10/23 14:17	04/10/23 14:20		20.0	20.0	19.5	100	98	3	80-120	20	
Arsenic	04/10/23 14:17	04/10/23 14:20		20.0	20.3	20.0	101	100	1	80-120	20	
Barium	04/10/23 14:17	04/10/23 14:20		20.0	20.6	20.3	103	101	1	80-120	20	
Beryllium	04/10/23 14:17	04/10/23 14:20		20.0	19.5	19.1	98	96	2	80-120	20	
Cadmium	04/10/23 14:17	04/10/23 14:20		20.0	18.8	18.3	94	91	3	80-120	20	
Chromium	04/10/23 14:17	04/10/23 14:20		20.0	21.2	20.5	106	102	3	80-120	20	
Cobalt	04/10/23 14:17	04/10/23 14:20		20.0	21.1	20.6	106	103	2	80-120	20	
Copper	04/10/23 14:17	04/10/23 14:20		20.0	20.4	19.7	102	99	3	80-120	20	
Lead	04/10/23 14:17	04/10/23 14:20	-	20.0	20.7	19.8	104	99	4	80-120	20	
Molybdenum	04/10/23 14:17	04/10/23 14:20		20.0	19.8	19.3	99	96	3	80-120	20	
Nickel	04/10/23 14:17	04/10/23 14:20		20.0	22.0	21.6	110	108	2	80-120	20	
Selenium	04/10/23 14:17	04/10/23 14:20		20.0	18.8	18.7	94	94	1	80-120	20	
Silver	04/10/23 14:17	04/10/23 14:20		20.0	19.0	18.4	95	92	3	80-120	20	
Thallium	04/10/23 14:17	04/10/23 14:20	-	20.0	20.3	20.4	101	102	0	80-120	20	
Vanadium	04/10/23 14:17	04/10/23 14:20	-	20.0	19.8	19.1	99	96	4	80-120	20	
Zinc	04/10/23 14:17	04/10/23 14:20	-	20.0	21.5	21.0	108	105	2	80-120	20	

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B/7471A

Laboratory Sample #: 27827-020 Date of Ex

Date of Extraction: 04/06/23 16:30

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Mercury	04/11/23 13:24	04/11/23 13:26	0.13	1.00	0.959	0.973	83	84	1	80-120	20	

QA/QC Report for Metals

Reference #: NAM 27828 Reporting units: ppm

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)

6010B/7471A

Laboratory Sample #: IR0406235

Date of Extraction: 04/06/23 16:30

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Mercury	04/11/23 10:58	04/11/23 11:00	1	1.00	0.984	0.990	98	99	1	80-120	20	

Data Qualifier Definitions

Qualifier

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable.

27827-024 6010B Antimony MS/MSD 27827-024 6010B Thallium MS/MSD

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level.

The associated blank spike recovery was acceptable.

27827-024 6010B Barium MS/MSD

R2 = RPD/RSD exceeded the laboratory acceptance limit.

27827-024 6010B Antimony MS/MSD

R4 = MS/MSD RPD exceeded the method acceptance limit. Recovery met acceptance criteria.

27829-001 8015B EFH MS/MSD

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

Analysis Request & C

of Custody Record



ORANGE COAST ANALYTICAL, INC.

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Lab Job No.:	Ι΄	$\Gamma \mathcal{A}$	` 1	None Control	

Intact:

On Ice: Yes / No @

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Company: Ninyo & Moore	Project Na	ame: LAU	SD 49th Street	PEA		enery.	X.	8260B						
Send Report To: Dennis Fee	Project Nu	umber: 2119	36010			5	función L	82						72 Hour:
Email: <u>dfee@ninyoandmoore.com</u>	PO #:					3	3	4						
Address: 475 Goddard Irvine, CA 92618	Address (0		Los Angeles, C	CA		22 melas	THIS GOMEST	<u>0</u>						48 Hour:
Phone: (949) 753-7070 Fax:		By: Alleen	Onea				Ø	8)						24 Hour:
Customer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix	Container Type	Title	2	9						REMARKS / INSTRUCTIONS
WC-040523	1	4/5/23	1565	55	902 jar	$ \times $	X	X						
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No. of Samples: Method of Shipment:	<u> </u>				Preservative:	1:	= lce	2 =	HCI	3 = HN	L IO₃	4 = H ₂ S	 O ₄	5 = NaOH 6 = Other

Relinquished By:	Date:	Received By:	Date:	Sample Matrix:	DW - Drinking Water
	Time:		Time:	GW - Groundwater	
Company:		Company:		GW - Glouliuwatei	AQ - Aqueous
Relinquished By:	Date:	Received By:	Date:	WW - Wastewater	SS - Soil / Solid
	Time:		Time:	SW - Stormwater	
Company:		Company:		SW - Stormwater	OT - Other
Relinquished By:	Date: 4/5/23	Received For OCA By:	Date: 4/6/23	Sample Integrity:	

Sample Receipt Report

		<u> </u>	<u> </u>	
Laboratory Referen	ce NAM 27828		Logged in by	MM
Received: Method of Shipment:	04/05/23 17:51	Company Name: Project Manager:	Ninyo & Moore	
Shipping Container:	Hand Delivered Cooler	Project Name:	Mr. Dennis Fee	DEA
# Shipping Containers:	2	Project #:	LAUSD 49th Street 211936010	PEA
Sample Quantity			211000010	
1 Soil	-			
Chain of Custody		Complete 🗹	Incomplete	None
Samples On Ice		Yes, Wet 🗹	Yes, Blue	No 🗌
Observed Temp. (°C): Therm	nometer ID:	Adjusted Temp.:	,
Shipping Intact		Yes 🗌	N/A 🗹	No 🗌
Shipping Custody Se	eals Intact	Yes 🗌	N/A 🗹	No 🗌
Samples Intact		Yes 🗸		No 🗌
Sample Custody Sea	als Intact	Yes	N/A 🔽	No 🗌
Custody Seals Signe	d & Dated	Yes 🗌	N/A 🗸	No 🗌
Proper Test Containe	ers	Yes 🗸		No 🗌
Proper Test Preserva	ations	Yes 🗸		No 🗌
Samples Within Hold	Times	Yes 🗹		No 🗌
VOAs Have Zero He	adspace	Yes	N/A 🗸	No 🗌
Sample Labels		Complete 🗹	Incomplete	None 🗓
Sample Information I	Matches COC	Yes 🗹	N/A 🗌	No 🗌
Notes				
2 coolers at 0 a	nd 1 °C IR#3 corr	ection =+0 °C		• •
		•		
			•	
•		•		

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2025 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27893

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 5/6/2023

Date Reported: 5/10/2023

Chain of Custody Received: ✓

Analytical Method: 6010B,

Mark Noorani, Laboratory Director

Lab Reference # NAM 27893 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 4°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Lab Reference # NAM 27893 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4-W4-0.5	27893-001	5/6/2023	5/6/2023	Soil
B4-W4-2.5	27893-002	5/6/2023	5/6/2023	Soil
B4-W3-0.5	27893-003	5/6/2023	5/6/2023	Soil
B4-W3-2.5	27893-004	5/6/2023	5/6/2023	Soil
B41A-0.5	27893-005	5/6/2023	5/6/2023	Soil
B40A-0.5	27893-006	5/6/2023	5/6/2023	Soil
B34-NE2-0.5	27893-007	5/6/2023	5/6/2023	Soil
B34-NE2-2.5	27893-008	5/6/2023	5/6/2023	Soil
B34-NE-0.5	27893-009	5/6/2023	5/6/2023	Soil
B34-NE-2.5	27893-010	5/6/2023	5/6/2023	Soil
B34-NW-0.5	27893-011	5/6/2023	5/6/2023	Soil
B34-NW2-0.5	27893-012	5/6/2023	5/6/2023	Soil
B34-NW2-2.5	27893-013	5/6/2023	5/6/2023	Soil
B34-SW-0.5	27893-014	5/6/2023	5/6/2023	Soil
B34-SW-2.5	27893-015	5/6/2023	5/6/2023	Soil
B34-SW2-0.5	27893-016	5/6/2023	5/6/2023	Soil
B34-SW2-2.5	27893-017	5/6/2023	5/6/2023	Soil

Lab Reference # NAM 27893 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample ID			Lab Sample Number	Date Received	Date Sampled		Matrix		
B4-W3-0.5			27893-003	5/6/2023 11:	50 5/6/20	23 8:13	Soil		
	ANALYTE Arsenic	EPA Method 6010B	Result 53	<u>Units</u> mg/kg	<u>Date Extracted</u> 05/08/23 16:00	<u>Date Analyzed</u> 05/09/23 13:50	<u>Qual</u> 	<u>DF</u> 1	
B41A-0.5			27893-005	5/6/2023 11:	50 5/6/20	23 8:37	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	89	mg/kg	05/08/23 16:00	05/09/23 13:53		1	
B34-NE-0.5			27893-009	5/6/2023 11:	50 5/6/20	23 9:21	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	30	mg/kg	05/08/23 16:00	05/09/23 13:56		1	
B34-NE-2.5			27893-010	5/6/2023 11:	50 5/6/20	23 9:26	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	360	mg/kg	05/08/23 16:00	05/09/23 14:00		1	
B34-SW-0.5			27893-014	5/6/2023 11:	50 5/6/20	23 9:50	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	17	mg/kg	05/08/23 16:00	05/09/23 14:03		1	
B34-SW-2.5			27893-015	5/6/2023 11:	50 5/6/20	23 9:54	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	5.8	mg/kg	05/08/23 16:00	05/09/23 14:06		1	

Lab Reference # NAM 27893 Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample	ID		Lab Sample Number	Date Received	Date Sample		Matrix		
Method Blank							Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	Qual	<u>DF</u>	
MBIR0508233	Arsenic	6010B	<2.0	mg/kg	05/08/23 16:00	05/09/23 13:27		1	
MBIR0508233	Lead	6010B	<0.80	mg/kg	05/08/23 16:00	05/09/23 13:27		1	

QA/QC Report for Metals

Reference #: NAM 27893 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B

Laboratory Sample #: 27892-001 Date of Extraction: 05/08/23 16:00

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	05/09/23 13:36	05/09/23 13:38	0.00	20.0	21.9	22.3	109	111	2	75-125	20	
Lead	05/09/23 13:36	05/09/23 13:38	3.70	20.0	23.6	24.3	100	103	3	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: IR0508233 Date of Extraction: 05/08/23 16:00

6010B

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	05/09/23 13:30	05/09/23 13:33		20.0	21.8	22.5	109	113	3	80-120	20	
Lead	05/09/23 13:30	05/09/23 13:33		20.0	22.4	22.8	112	114	2	80-120	20	

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100

%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100

RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

Analysis Request & C

of Custody Record

ORANGE COAST ANALYTICAL, INC.

www.ocalab.com

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Lab Job No.:	7	7	9	ŞΥ	つ	

Page:	- 1

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Tust	n, CA 92780		Phoe	nix, AZ 8	35040											DEC.	UESTED
Phone	e: (714) 832-0064 Fax: (714) 832-0067		Phone	: (480) 736	6-0960 Fax: (480)	736-097	70		Ø	Ø							ROUND-TIME
CUSTOME	INFORMATION			PRO	DJECT INFORMA	TION			EPA 6010	0						Standard:	Tall the Sales Report of the Sales and the S
Company: Ninyo & Moore	2	Project I	Name:	LAL	JSD 49th Street	PEA				9							
Send Report To: Dennis Fe	e	Project I	Number:	211	936010					. L						72 Hour	· _×_
Email: dfee@ninyoandm	oore.com	PO #:							_ Š								
Address: 475 Goddard		—	(City / S		Los Angeles, C	Α										48 Hour	
Irvine, CA 9261	8				eEDD				be Arsenic	1600 by							
Phone: (949) 753-7070	Fax:	Sampled No. of	Soulid RASKERSOUR	entine e courte marc	n Chea	Samp	le .	2.00	\ <u>\</u>	8						24 Hour	:
Customer Sample IDs		Container	rs Sam	ple Date	Sample Time	Matr	ix	Container Ty	HOSSINGERG								/ INSTRUCTIONS
1 B4-W4-0.5		1	5/9	0/23	0803	22		90z jar	-	ļ						HOLD	
4 B4-W4-2.5			_	1	9080					,						HOLD	,
3 B4-W3-0.5	1 10 100			<u> </u>	0813				$\perp \times$								
4 B4-W3-2.5					0815											HOLD	
B41A-0.5					0837												
B40A-0.5				<u> </u>	0848											HOLL	>
B34-NEZ-0.5					0908											HOLD	>
6 B34-NEZ-2.5				1	0917											HOL	>
9 B34-NE-0.5				ł	0921					X							
0 B34-NE-2.5					0926					X							
1 B34-NW-0.5					0931											HOLD	
2 B34-NW2-0.5					0938	l										HOLL	>
B34-NW2-2.					0944											HOLD	
B34-SW-0.5		V		V	0950		,	1		X							
No. of Samples: 14	Method of Shipment:							Preservativ	/e: /	= ice	2 = H	Cl 3	= HNO	3 4	I = H ₂ SO ₄	5 = NaOH	6 = Other
Relinquished By: A:leen Chea/Ol	Date: 5/6/	23	Recei	ved By:					Date:			San	ıple M	atrix:		DW - Drink	ing \Mater
A.leen Cheay Ch	lu Time: 1150	9						Т	ime:				W C*	a		DW - DIIIK	ng water
Company: Ninyo & Moo!	e		Comp	any:								١	vv - Gr	oundw	ater	AQ - Aquec	us
Relinquished By:	Date:		Recei	ved By:				С	ate:] w	/W - W	'astewa	ater	SS - Soil / Se	olid
Company:	Time:		Comp	anv:				Т	ime:			S	N - Sto	rmwat	er	OT - Other	
Relinquished By:	Date:		Recei	ved For (OCA By:				ate: 5	161	2.3	San	nple In	tegrity		4.0+0. I	34.5 2
	Time:								ime: //			1			a	I	143
Company:			Comp	any: O	CASCA					•		Inta	ict: _		On Ice:	Yes No @	

		Analysis Re	quest & (ı of	Custody R	lecoi	^d							
ORANGE COAST ANALY	TICAL, INC.		www.	ocalab.c	com	Lab	Job No	: 2	.78	χ_{2}	<u> </u>	Page:	2	of 2.
3002 Dow Avenue, Suite		4620 East Elw	ood Street, Sui				AN.	ALYSIS R	EQUEST	/ PRES	ERVATI	ON		
Tustin, CA 92780		Phoenix, AZ 8					i i							
Phone: (714) 832-0064 Fax: (714) 832-0067	· ·	5-0960 Fax: (480)	736-0970		Ø	<i>~</i> 0						201220200000000000000000000000000000000	QUESTED ROUND-TIME
CUSTOMER INFORMATION		PRC	JECT INFORMA	ATION		EPA GOINE	80109						Standard:	The London Marie of the San
Company: Ninyo & Moore	Project N	ame: LAU	SD 49th Street	PEA		72	Č							
Send Report To: Dennis Fee	Project N	umber: 211	936010				&						72 Hour	· ×
Email: <u>dfee@ninyoandmoore.com</u>	PO #:						6							
Address: 475 Goddard	Address (City / State):	Los Angeles, C	CA .	***	3	5						48 Hour	*
Irvine, CA 92618	EDD Requ	ired: Schlo	eedo			7/2	٩							
Phone: (949) 753-7070 Fax:	Sampled	By: Aile	1 Chea		ma	Arsen	8						24 Hour	:
Customer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix	Container Type	A	3						REMARKS	/ INSTRUCTIONS
B34-SW-2.5	1	5/6/23	0954	SS	902 jav		X	İ	İ		İ			
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3]	<u></u>						,			
No. of Samples: 3 Method of Relinquished By:		Daneline I Do			Preservative:	-(1	= ice	2 = HC	3 =	HNO ₃	4 =	H ₂ SO ₄	5 = NaOH	6 = Other
1 A-1 A () ()	Date: 6/6/23 Time: 11 50	Received By:			Date				Samp	le Mat	rix:		DW - Drinki	ing Water
Company: Ninyo & Moore	ine. 11 30	Company:			Tim	e:			GW	' - Groι	ındwate	er	AQ - Aqueo	us
Polinguished Pur	Pate:	Received By:	-		Date	e:			wv	V - Was	stewate		·	
T	ime:				Tim								SS - Soil / So	olid
Company:		Company:							SW	- Storn	nwater		OT - Other	
Relinquished By:	Pate:	Received For C	OCA By:		Date	e: 5	-6-	23	Samp	le Inte	grity:		4.	to24.
Τ	ime:	mak 2	1)				150				•	_	``	1124.0°C
Company:		Company: & C	A, CA						Intac	t:		On Ice (Y	es)/No @	

Sample Receipt Report

Laboratory Reference	cenam 27893	3		Logged in by	MM
Received:	05/06/23 1		Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delive	ered	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	····	Project Name:	LAUSD 49th Stree	t PEA
# Shipping Containers:		1	Project #:	211936010	
Sample Quantity 17 Soil					
Chain of Custody		C	Complete 🗹	Incomplete	None 🗌
Samples On Ice		`	Yes, Wet 🗹	Yes, Blue	No 🗌
Observed Temp. (°C)	: 4	Thermometer	ID: IR#3	Adjusted Temp.:	4+(-0)=4
Shipping Intact			Yes	N/A 🔽	No 🗌
Shipping Custody Se	als Intact		Yes 🗌	N/A 🔽	No 🗌
Samples Intact			Yes 🗸		No 🗌
Sample Custody Sea	ls Intact		Yes 🗌	N/A 🗹	No 🗌
Custody Seals Signe	d & Dated		Yes 🗌	N/A 🗸	No 🗌
Proper Test Containe	ers		Yes 🗸		No 🗌
Proper Test Preserva	itions		Yes 🗸		No 🗌
Samples Within Hold	Times		Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace		Yes 🗌	N/A 🔽	No 🗌
Sample Labels		C	Complete 🗸	Incomplete	None
Sample Information I	Matches COC		Yes 🗸	N/A 🗌	No 🗌
Notes					
		•			

10 April 2023

Dennis Fee Ninyo & Moore 475 Goddard, Suite 200 Irvine, CA 92618

Re: 211936010

Enclosed are the results of analyses for samples received by the laboratory on 04/06/23. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colby Wakeman Lab Director

Jahl



Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-1-15'	J230852-001	Soil Gas	04/06/2023 08:20	04/06/2023 05:52
SV-1-15' REP	J230852-002	Soil Gas	04/06/2023 08:23	04/06/2023 05:52
SV-1-5'	J230852-003	Soil Gas	04/06/2023 08:37	04/06/2023 05:52
SV-2-5'	J230852-004	Soil Gas	04/06/2023 09:06	04/06/2023 05:52
SV-2-15'	J230852-005	Soil Gas	04/06/2023 09:26	04/06/2023 05:52
SV-3-5'	J230852-006	Soil Gas	04/06/2023 09:35	04/06/2023 05:52
SV-3-15'	J230852-007	Soil Gas	04/06/2023 09:49	04/06/2023 05:52
SV-4-5'	J230852-008	Soil Gas	04/06/2023 10:09	04/06/2023 05:52
SV-4-15'	J230852-009	Soil Gas	04/06/2023 10:18	04/06/2023 05:52
SV-5-5'	J230852-010	Soil Gas	04/06/2023 10:45	04/06/2023 05:52
SV-5-15'	J230852-011	Soil Gas	04/06/2023 11:05	04/06/2023 05:52
SV-6-5'	J230852-012	Soil Gas	04/06/2023 11:17	04/06/2023 05:52
SV-6-15'	J230852-013	Soil Gas	04/06/2023 11:34	04/06/2023 05:52

Jones Environmental, Inc.

Jell



Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

DETECTIONS SUMMARY

Sample ID: SV-1-15' **Laboratory ID:** J230852-001

		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Freon 12	44	16	$\mu g/m3$	EPA 8260	
Ethylbenzene	31	8	$\mu g/m3$	EPA 8260	
Tetrachloroethene	20	8	$\mu g/m3$	EPA 8260	
Toluene	92	8	$\mu g/m3$	EPA 8260	
1,2,4-Trimethylbenzene	22	8	$\mu g/m3$	EPA 8260	
m,p-Xylene	140	16	$\mu g/m3$	EPA 8260	
o-Xylene	41	8	$\mu g/m3$	EPA 8260	
Sample ID: SV-1-15' REP]	Laboratory ID:	J230852-002	

Analyte	Result	Reporting Limit	Units	Method	Notes
Freon 12	42	16	$\mu g/m3$	EPA 8260	
Ethylbenzene	32	8	$\mu g/m3$	EPA 8260	
Tetrachloroethene	26	8	$\mu g/m3$	EPA 8260	
Toluene	82	8	$\mu g/m3$	EPA 8260	
1,2,4-Trimethylbenzene	20	8	$\mu g/m3$	EPA 8260	
m,p-Xylene	135	16	$\mu g/m3$	EPA 8260	
o-Xylene	39	8	$\mu g/m3$	EPA 8260	
Sample ID: SV-1-5'			Laboratory ID:	J230852-003	

		Reporting				
Analyte	Result	Limit	Units	Method	Notes	
Freon 12	32	16	$\mu g/m3$	EPA 8260		
Ethylbenzene	13	8	$\mu g/m3$	EPA 8260		
Tetrachloroethene	27	8	$\mu g/m3$	EPA 8260		
Toluene	46	8	$\mu g/m3$	EPA 8260		
1,2,4-Trimethylbenzene	9	8	$\mu g/m3$	EPA 8260		
m,p-Xylene	52	16	μg/m3	EPA 8260		
o-Xylene	15	8	$\mu g/m3$	EPA 8260		

Jones Environmental, Inc.

JUL



Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

DETECTIONS SUMMARY

Sample ID:	SV-2-5'	Laboratory ID:	J230852-004

Sample 1D: 3 v - 2 - 3			Laboratory ID:	3230032-004	
Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	28	8	$\mu g/m3$	EPA 8260	
Toluene	39	8	μg/m3	EPA 8260	
m,p-Xylene	25	16	$\mu g/m3$	EPA 8260	
o-Xylene	8	8	μg/m3	EPA 8260	
Sample ID: SV-2-15'			Laboratory ID:	J230852-005	
Analyte	Result	Reporting Limit	Units	Method	Notes
Freon 12	18	16	$\mu g/m3$	EPA 8260	
Tetrachloroethene	26	8	$\mu g/m3$	EPA 8260	
Toluene	22	8	$\mu g/m3$	EPA 8260	
1,2,4-Trimethylbenzene	11	8	μg/m3	EPA 8260	
m,p-Xylene	26	16	μg/m3	EPA 8260	
Sample ID: SV-3-5'			Laboratory ID:	J230852-006	
		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Ethylbenzene	10	8	$\mu g/m3$	EPA 8260	

		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Ethylbenzene	10	8	$\mu g/m3$	EPA 8260	
Tetrachloroethene	16	8	$\mu g/m3$	EPA 8260	
Toluene	59	8	$\mu g/m3$	EPA 8260	
m,p-Xylene	37	16	$\mu g/m3$	EPA 8260	
o-Xylene	12	8	$\mu g/m3$	EPA 8260	
Sample ID: SV-3-15'		I	aboratory ID:	J230852-007	

		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Tetrachloroethene	26	8	$\mu g/m3$	EPA 8260	
Toluene	29	8	$\mu g/m3$	EPA 8260	
m,p-Xylene	20	16	$\mu g/m3$	EPA 8260	

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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Notes

DETECTIONS SUMMARY

Sample ID:	SV-4-5'	Laboratory ID:	J230852-008

Analyte	Result	Reporting Limit	Units	Method	Notes
Tetrachloroethene	30	8	$\mu g/m3$	EPA 8260	
Toluene	22	8	μg/m3	EPA 8260	
Sample ID: SV-4-15'		1	Laboratory ID:	J230852-009	

Analyte	Result	Reporting Limit	Units	Method
Ethylbenzene	14	8	μg/m3	EPA 8260
,				
Tetrachloroethene	23	8	μg/m3	EPA 8260
Toluene	57	8	μg/m3	EPA 8260
1,2,4-Trimethylbenzene	10	8	$\mu g/m3$	EPA 8260
m,p-Xylene	50	16	$\mu g/m3$	EPA 8260
o-Xylene	16	8	$\mu g/m3$	EPA 8260
G 1 75 GY 7 7				*********

Sample ID:	SV-5-5'	Laboratory ID:	J230852-010
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Analyte	Result	Reporting Limit	Units	Method	Notes
Freon 12	69	16	μg/m3	EPA 8260	
Ethylbenzene	15	8	μg/m3	EPA 8260	
Tetrachloroethene	38	8	μg/m3	EPA 8260	
Toluene	44	8	μg/m3	EPA 8260	
1,2,4-Trimethylbenzene	14	8	μg/m3	EPA 8260	
m,p-Xylene	73	16	μg/m3	EPA 8260	
o-Xylene	22	8	$\mu g/m3$	EPA 8260	
Sample ID: SV-5-15'			Laboratory ID:	J230852-011	

Analyte	Result	Reporting Limit	Units	Method	Notes
Freon 12	82	16	μg/m3	EPA 8260	Notes
Ethylbenzene	19	8	μg/m3	EPA 8260	
Tetrachloroethene	91	8	μg/m3	EPA 8260	

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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DETECTIONS SUMMARY

Sample ID: SV-5-15' **Laboratory ID:** J230852-011

		Reporting			
Analyte	Result	Limit	Units	Method	
Toluene	60	8	$\mu g/m3$	EPA 8260	
1,2,4-Trimethylbenzene	16	8	$\mu g/m3$	EPA 8260	
m,p-Xylene	71	16	$\mu g/m3$	EPA 8260	
o-Xylene	21	8	μg/m3	EPA 8260	
Sample ID: SV-6-5'		L	aboratory ID:	J230852-012	

		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Ethylbenzene	12	8	$\mu g/m3$	EPA 8260	
Tetrachloroethene	87	8	$\mu g/m3$	EPA 8260	
Toluene	51	8	$\mu g/m3$	EPA 8260	
1,2,4-Trimethylbenzene	10	8	$\mu g/m3$	EPA 8260	
m,p-Xylene	49	16	$\mu g/m3$	EPA 8260	
o-Xylene	15	8	$\mu g/m3$	EPA 8260	
Sample ID: SV-6-15'		1	Laboratory ID:	J230852-013	

		Reporting			
Analyte	Result	Limit	Units	Method	Notes
Tetrachloroethene	64	8	$\mu g/m3$	EPA 8260	
Toluene	33	8	$\mu g/m3$	EPA 8260	
1,2,4-Trimethylbenzene	10	8	$\mu g/m3$	EPA 8260	
m,p-Xylene	34	16	$\mu g/m3$	EPA 8260	
o-Xylene	11	8	$\mu g/m3$	EPA 8260	

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-1-15' J230852-001(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
2 111u1 y to						1 repared	7 Mary ZCC	Wichiou	11016
		atile Orgar							
Benzene	ND	8	$\mu g/m3$	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
Carbon tetrachloride	ND	8	$\mu g/m3$	"	"		"	"	
Chlorobenzene	ND	8	$\mu g/m3$	"	"		"	"	
Chloroform	ND	8	$\mu g/m3$	"	"		"	"	
Dibromochloromethane	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	44	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	"		"	"	
Freon 113	ND	16	μg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	31	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	"		"	"	
Tetrachloroethene	20	8	μg/m3	"	"		"	"	
Toluene	92	8	μg/m3 μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3 μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND ND	8	μg/1113 μg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	22	8	μg/m3	"	"		"	"	
-				"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	μg/m3				"		

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-1-15' J230852-001(Soil Gas)

	-	orting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volatil	e Orgar	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	140	16	$\mu g/m3$	"	"		"	"	
o-Xylene	41	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-amylmethylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-Butylalcohol	ND	400	$\mu g/m3$	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	$\mu g/m3$	"	"		"	"	
n-Hexane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Pentane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Heptane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
Surrogate: Toluene-d8	100.58 %	60	- 140						
Surrogate: Dibromofluoromethane	92.82 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	100.85 %	60	- 140						

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-1-15' REP J230852-002(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Allalyte						Frepareu	Allalyzeu	Method	Notes
				oounds by					
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	μg/m3	"	"		"	"	
n-Butylbenzene	ND	12	μg/m3	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
Carbon tetrachloride	ND	8	$\mu g/m3$	"	"		"	"	
Chlorobenzene	ND	8	$\mu g/m3$	"	"		"	"	
Chloroform	ND	8	$\mu g/m3$	"	"		"	"	
Dibromochloromethane	ND	8	$\mu g/m3$	**	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	**	"		"	"	
Freon 12	42	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	**		"	"	
Freon 113	ND	16	μg/m3	"	**		"	"	
1,1-Dichloroethane	ND	8	μg/m3	**	**		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	32	8	μg/m3	**	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND ND	8	μg/1113 μg/m3	"	"		"	"	
				"	"		"	"	
Styrene	ND ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	,,				
Tetrachloroethene	26	8	$\mu g/m3$	"	"		"	"	
Toluene	82 ND	8	μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3						
1,1,2-Trichloroethane	ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND	8	μg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	20	8	$\mu g/m3$	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$	"	"		"	"	

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-1-15' REP J230852-002(Soil Gas)

	Re	porting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volati	le Organ	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	135	16	$\mu g/m3$	"	"		"	"	
o-Xylene	39	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	μg/m3	"	"		"	"	
tert-amylmethylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-Butylalcohol	ND	400	$\mu g/m3$	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	μg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Pentane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Heptane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
Surrogate: Toluene-d8	103.58 %	60	- 140						
Surrogate: Dibromofluoromethane	93.21 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	99.56 %	60	- 140						

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-1-5' J230852-003(Soil Gas)

		Reporting		Jon Gas)					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Vola	tile Organ	nic Comp	ounds by	EPA 8260				
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
Carbon tetrachloride	ND	8	$\mu g/m3$	"	"		"	"	
Chlorobenzene	ND	8	$\mu g/m3$	"	**		"	"	
Chloroform	ND	8	μg/m3	"	"		"	"	
Dibromochloromethane	ND	8	μg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	μg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	32	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	**		"	"	
Freon 113	ND	16	μg/m3	"	**		"	"	
1,1-Dichloroethane	ND	8	μg/m3	**	**		"	"	
1,2-Dichloroethane	ND	8	μg/m3	**	**		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	13	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	"		"	"	
Tetrachloroethene	27	8	μg/m3	"	"		"	"	
Toluene	46	8	μg/1113 μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND ND			"	"		"	"	
1,2,4-Trimethylbenzene		8	μg/m3	"	"		"	"	
•	9 ND	8	μg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$		**				

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-1-5' J230852-003(Soil Gas)

Analyte	Re _I Result	oorting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volatil	e Organ	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	52	16	$\mu g/m3$	"	"		"	"	
o-Xylene	15	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	μg/m3	"	"		"	"	
Di-isopropylether	ND	40	μg/m3	"	"		"	"	
tert-amylmethylether	ND	40	μg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	μg/m3	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	μg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Heptane (LCC)	ND	80	μg/m3	"	"		"	"	
Surrogate: Toluene-d8	101.89 %	60	- 140						
Surrogate: Dibromofluoromethane	93.63 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	97.38 %	60	- 140						

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-2-5' J230852-004(Soil Gas)

	F	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Vola	tile Organ	nic Comp	ounds by	EPA 8260				
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	μg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	μg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	μg/m3	"	"		"	"	
Chlorobenzene	ND	8	μg/m3	"	"		"	"	
Chloroform	ND	8	μg/m3	"	"		"	"	
Dibromochloromethane	ND	8	μg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	μg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	ND	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	"		"	"	
Freon 113	ND	16	μg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	ND	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND ND	40		"	"		"	"	
•			μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	$\mu g/m3$	"	"		"	"	
Styrene	ND	8	$\mu g/m3$	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	.,		"	"	
Tetrachloroethene	28	8	μg/m3	"	"		"	"	
Toluene	39	8	μg/m3						
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND	8	μg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	ND	8	$\mu g/m3$	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$	"	"		"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Colby Wakeman Lab Director



Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-2-5' J230852-004(Soil Gas)

	-	orting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volatil	e Orgar	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	25	16	$\mu g/m3$	"	"		"	"	
o-Xylene	8	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-amylmethylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-Butylalcohol	ND	400	$\mu g/m3$	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	$\mu g/m3$	"	"		"	"	
n-Hexane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Pentane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Heptane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
Surrogate: Toluene-d8	102.75 %	60	- 140						
Surrogate: Dibromofluoromethane	94.43 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	98.77 %	60	- 140						

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-2-15' J230852-005(Soil Gas)

		Reporting		Jon Gas,					
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Vola	tile Organ	nic Comp	ounds by	EPA 8260				
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
Carbon tetrachloride	ND	8	$\mu g/m3$	"	"		"	"	
Chlorobenzene	ND	8	$\mu g/m3$	"	"		"	"	
Chloroform	ND	8	μg/m3	"	"		"	"	
Dibromochloromethane	ND	8	μg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	μg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	18	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	**		"	"	
Freon 113	ND	16	μg/m3	"	**		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	**		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	**		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	ND	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	"		"	"	
Tetrachloroethene	26	8	μg/m3	"	"		"	"	
Toluene	22	8	μg/1113 μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND ND			"	"		"	"	
Trichloroethene		8	μg/m3	"	"		"	"	
	ND	8	μg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	11 ND	8	μg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$	"	**		"	"	

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-2-15' J230852-005(Soil Gas)

Analyte	Re _J Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volatil	le O rgar	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	26	16	$\mu g/m3$	"	"		"	"	
o-Xylene	ND	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	μg/m3	"	"		"	"	
tert-amylmethylether	ND	40	μg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	$\mu g/m3$	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	μg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Heptane (LCC)	ND	80	μg/m3	"	"		"	"	
Surrogate: Toluene-d8	101.60 %	60	- 140						
Surrogate: Dibromofluoromethane	91.39 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	97.77 %	60	- 140						

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-3-5' J230852-006(Soil Gas)

	F	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Vola	tile Organ	nic Comp	ounds by	EPA 8260				
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
Carbon tetrachloride	ND	8	$\mu g/m3$	"	"		"	"	
Chlorobenzene	ND	8	$\mu g/m3$	"	"		"	"	
Chloroform	ND	8	μg/m3	"	"		"	"	
Dibromochloromethane	ND	8	μg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	μg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	ND	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	**		"	"	
Freon 113	ND	16	μg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	**		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	**		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	**		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	10	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3 μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3 μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	"		"	"	
Tetrachloroethene	16	8	μg/m3	"	"		"	"	
Toluene	59	8	μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND ND	8	μg/1113 μg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	ND ND	8	μg/m3	"	"		"	"	
1,3,5-Trimethylbenzene				"	"		"	"	
1,5,5-1 fillethylochzene	ND	8	μg/m3						

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Colby Wakeman Lab Director



Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

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SV-3-5' J230852-006(Soil Gas)

	D	4.							
Analyte	Result	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volatil	e O rgar	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	37	16	$\mu g/m3$	"	"		"	"	
o-Xylene	12	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-amylmethylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-Butylalcohol	ND	400	$\mu g/m3$	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	$\mu g/m3$	"	"		"	"	
n-Hexane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Pentane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Heptane (LCC)	ND	80	$\mu g/m3$	"	11		"	"	
Surrogate: Toluene-d8	103.40 %	60	- 140						
Surrogate: Dibromofluoromethane	92.62 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	98.60 %	60	- 140						

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-3-15' J230852-007(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Allalyte						Trepared	Allalyzeu	Method	Notes
				ounds by			0.1/0.6/0.0	TD + 00.00	
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	μg/m3						
Bromoform	ND	8	μg/m3	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	μg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	$\mu g/m3$	"	"		"	"	
Chlorobenzene	ND	8	$\mu g/m3$	"	"		"	"	
Chloroform	ND	8	$\mu g/m3$	"	"		"	"	
Dibromochloromethane	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dichlorobenzene	ND	16	$\mu g/m3$	"	"		"	"	
1,3-Dichlorobenzene	ND	16	$\mu g/m3$	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	**		"	"	
Freon 12	ND	16	μg/m3	**	"		"	"	
Freon 11	ND	16	μg/m3	"	"		"	"	
Freon 113	ND	16	μg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	μg/m3	**	**		"	"	
1,2-Dichloroethane	ND	8	μg/m3	**	**		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	ND	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND ND	8	μg/1113 μg/m3	"	"		"	"	
				"	"		"	"	
Styrene	ND ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"			"		
Tetrachloroethene	26	8	$\mu g/m3$	"	"		"	"	
Toluene	29	8	μg/m3						
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND	8	$\mu g/m3$	"	"		"	"	
1,2,4-Trimethylbenzene	ND	8	$\mu g/m3$	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$	"	"		"	"	

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-3-15' J230852-007(Soil Gas)

Analyte	Re _l Result	oorting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
·	Volatil	e Organ	nic Comp	oounds by	EPA 8260		<u> </u>		
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	20	16	$\mu g/m3$	"	"		"	"	
o-Xylene	ND	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	μg/m3	"	"		"	"	
tert-amylmethylether	ND	40	μg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	μg/m3	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	μg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Heptane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
Surrogate: Toluene-d8	102.43 %	60	- 140						
Surrogate: Dibromofluoromethane	92.12 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	95.45 %	60	- 140						

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-4-5' J230852-008(Soil Gas)

	F	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Vola	tile Orgar	nic Comp	ounds by	EPA 8260				
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
Carbon tetrachloride	ND	8	μg/m3	"	"		"	"	
Chlorobenzene	ND	8	μg/m3	"	"		"	"	
Chloroform	ND	8	μg/m3	"	"		"	"	
Dibromochloromethane	ND	8	μg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	μg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	ND	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	"		"	"	
Freon 113	ND	16	μg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	ND	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3 μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3 μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND ND	16	μg/m3	"	"		"	"	
				"	"		"	"	
Tetrachloroethene Toluene	30 22	8	μg/m3	"	"		"	"	
			μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND	8	μg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	ND	8	μg/m3				"		
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$	"	"		"	"	

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-4-5' J230852-008(Soil Gas)

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Result	Limit	Omis	Dilution	Daten	Trepared	Anaryzeu	Wicthod	TVOICS
	Volati	le Organ	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	ND	16	$\mu g/m3$	"	"		"	"	
o-Xylene	ND	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-amylmethylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-Butylalcohol	ND	400	$\mu g/m3$	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	$\mu g/m3$	"	"		"	"	
n-Hexane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Pentane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Heptane (LCC)	ND	80	μg/m3	"	"		"	"	
Surrogate: Toluene-d8	102.47 %	60	- 140						
Surrogate: Dibromofluoromethane	92.61 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	97.04 %	60	- 140						

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-4-15' J230852-009(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Vola	tile Organ	nic Comp	ounds by	EPA 8260				
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	μg/m3	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	μg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	μg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	μg/m3	"	"		"	"	
Chlorobenzene	ND	8	μg/m3	"	"		"	"	
Chloroform	ND	8	μg/m3	"	"		"	"	
Dibromochloromethane	ND	8	μg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	μg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	ND	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	"		"	"	
Freon 113	ND	16	μg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	14	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND ND	16	μg/m3	"	"		"	"	
Tetrachloroethene	23	8	μg/m3	"	"		"	"	
Toluene	57	8	μg/1113 μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND ND			"	"		"	"	
Trichloroethene	ND ND	8	μg/m3 μg/m3	"	"		"	"	
		8		"	"		"	"	
1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene	10 ND	8	μg/m3 μg/m3	"	"		"	"	

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-4-15' J230852-009(Soil Gas)

Analyte	Re _J Result	oorting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volatil	e Organ	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	50	16	$\mu g/m3$	"	"		"	"	
o-Xylene	16	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	μg/m3	"	"		"	"	
tert-amylmethylether	ND	40	μg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	μg/m3	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	μg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Heptane (LCC)	ND	80	μg/m3	"	"		"	"	
Surrogate: Toluene-d8	101.78 %	60	- 140						
Surrogate: Dibromofluoromethane	92.98 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	97.95 %	60	- 140						

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-5-5' J230852-010(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Vola	tile Organ	nic Comp	ounds by	EPA 8260				
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	μg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	μg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	μg/m3	"	"		"	"	
Chlorobenzene	ND	8	μg/m3	"	"		"	"	
Chloroform	ND	8	μg/m3	"	"		"	"	
Dibromochloromethane	ND	8	μg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	μg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	69	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	"		"	"	
Freon 113	ND	16	μg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	15	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	"		"	"	
Tetrachloroethene	38	8	μg/m3	"	"		"	"	
Toluene	44	8	μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND	8	μg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	14	8	μg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	μg/m3	"	"		"	"	

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Colby Wakeman Lab Director



Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-5-5' J230852-010(Soil Gas)

Analyta	Re Result	porting Limit	Units	Dilution	Batch	Drangrad	Analyzed	Method	Notes
Analyte	Kesuit	Dillit	Ullits	Dilution	Daten	Prepared	Analyzeu	Method	notes
	Volati	le Organ	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	73	16	$\mu g/m3$	"	"		"	"	
o-Xylene	22	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-amylmethylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-Butylalcohol	ND	400	$\mu g/m3$	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	$\mu g/m3$	"	"		"	"	
n-Hexane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Pentane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Heptane (LCC)	ND	80	μg/m3	"	"		"	"	
Surrogate: Toluene-d8	103.54 %	60	- 140						
Surrogate: Dibromofluoromethane	88.70 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	97.97 %	60	- 140						

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-5-15' J230852-011(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Allalyte						Trepared	Allalyzeu	Method	Notes
				oounds by					
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	$\mu g/m3$	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
Carbon tetrachloride	ND	8	$\mu g/m3$	"	"		"	"	
Chlorobenzene	ND	8	$\mu g/m3$	"	"		"	"	
Chloroform	ND	8	$\mu g/m3$	"	"		"	"	
Dibromochloromethane	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	**	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	**	"		"	"	
Freon 12	82	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	**		"	"	
Freon 113	ND	16	μg/m3	"	**		"	"	
1,1-Dichloroethane	ND	8	μg/m3	**	**		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	19	8	μg/m3	**	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND ND	40	μg/m3	"	"		"	"	
-	ND ND			"	"		"	"	
n-Propylbenzene		8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3		**			.,	
Tetrachloroethene	91	8	μg/m3	"	"				
Toluene	60	8	μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	$\mu g/m3$	"	"		"	"	
1,1,2-Trichloroethane	ND	8	$\mu g/m3$	"	"		"	"	
Trichloroethene	ND	8	$\mu g/m3$	"	"		"	"	
1,2,4-Trimethylbenzene	16	8	$\mu g/m3$	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$	"	"		"	"	

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-5-15' J230852-011(Soil Gas)

Analyte	Reg Result	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volatil	e Orga r	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	71	16	$\mu g/m3$	"	"		"	"	
o-Xylene	21	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Di-isopropylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-amylmethylether	ND	40	$\mu g/m3$	"	"		"	"	
tert-Butylalcohol	ND	400	$\mu g/m3$	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	$\mu g/m3$	"	"		"	"	
n-Hexane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Pentane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
n-Heptane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
Surrogate: Toluene-d8	101.57 %	60	- 140						
Surrogate: Dibromofluoromethane	90.75 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	97.08 %	60	- 140						

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-6-5' J230852-012(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Vola	tile Orgar	nic Comp	ounds by	EPA 8260				
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	μg/m3	"	"		"	"	
Bromoform	ND	8	$\mu g/m3$	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	μg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	μg/m3	"	"		"	"	
Chlorobenzene	ND	8	μg/m3	"	"		"	"	
Chloroform	ND	8	μg/m3	"	"		"	"	
Dibromochloromethane	ND	8	μg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	μg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
Freon 12	ND	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	"		"	"	
Freon 113	ND	16	μg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	"	"		"	"	
Ethylbenzene	12	8	μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	"		"	"	
Tetrachloroethene	87	8	μg/m3	"	"		"	"	
Toluene	51	8	μg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	μg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	μg/m3	"	"		"	"	
Trichloroethene	ND	8	μg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	10	8	μg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	μg/m3	"	"		"	"	

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-6-5' J230852-012(Soil Gas)

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volati	le Organ	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	49	16	$\mu g/m3$	"	"		"	"	
o-Xylene	15	8	μg/m3	"	"		"	"	
Methyl-tert-butylether	ND	40	μg/m3	"	"		"	"	
Ethyl-tert-butylether	ND	40	μg/m3	"	"		"	"	
Di-isopropylether	ND	40	μg/m3	"	"		"	"	
tert-amylmethylether	ND	40	μg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	μg/m3	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	μg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Heptane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
Surrogate: Toluene-d8	104.15 %	60	- 140						
Surrogate: Dibromofluoromethane	90.58 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	96.97 %	60	- 140						

Jones Environmental, Inc.

Jell



Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-6-15' J230852-013(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Allalyte						Trepared	Allalyzeu	Method	Notes
_				oounds by			0.1/0.6/0.0	TD + 00.00	
Benzene	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
Bromodichloromethane	ND	8	μg/m3						
Bromoform	ND	8	μg/m3	"	"		"	"	
n-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
sec-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
tert-Butylbenzene	ND	12	$\mu g/m3$	"	"		"	"	
Carbon tetrachloride	ND	8	$\mu g/m3$	"	"		"	"	
Chlorobenzene	ND	8	$\mu g/m3$	"	"		"	"	
Chloroform	ND	8	$\mu g/m3$	"	"		"	"	
Dibromochloromethane	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	$\mu g/m3$	"	"		"	"	
1,2-Dichlorobenzene	ND	16	$\mu g/m3$	"	"		"	"	
1,3-Dichlorobenzene	ND	16	μg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	μg/m3	**	"		"	"	
Freon 12	ND	16	μg/m3	"	"		"	"	
Freon 11	ND	16	μg/m3	"	**		"	"	
Freon 113	ND	16	μg/m3	**	**		"	"	
1,1-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	μg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	μg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	μg/m3	**	"		"	"	
trans-1,2-Dichloroethene	ND	8	μg/m3	**	"		"	"	
Ethylbenzene	ND	8	μg/m3 μg/m3	"	"		"	"	
Isopropylbenzene	ND	8	μg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	μg/m3	"	"		"	"	
				"	"		"	"	
Methylene chloride	ND	8	μg/m3	"	"		"	"	
Naphthalene	ND	40	μg/m3	"	"		"	"	
n-Propylbenzene	ND	8	μg/m3	"	"		"	"	
Styrene	ND	8	μg/m3		"				
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	"			"	"	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	"	"		"	"	
Tetrachloroethene	64	8	$\mu g/m3$	"	"		"	"	
Toluene	33	8	$\mu g/m3$	"	"		"	"	
1,1,1-Trichloroethane	ND	8	$\mu g/m3$	"	"		"	"	
1,1,2-Trichloroethane	ND	8	$\mu g/m3$	"	"		"	"	
Trichloroethene	ND	8	$\mu g/m3$	"	"		"	"	
1,2,4-Trimethylbenzene	10	8	$\mu g/m3$	"	"		"	"	
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$	"	"		"	"	

Jones Environmental, Inc.

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Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

SV-6-15' J230852-013(Soil Gas)

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Volati	le O rgar	nic Comp	ounds by	EPA 8260				
Vinyl chloride	ND	8	μg/m3	1	QC2304089		04/06/23	EPA 8260	
m,p-Xylene	34	16	$\mu g/m3$	"	"		"	"	
o-Xylene	11	8	$\mu g/m3$	"	"		"	"	
Methyl-tert-butylether	ND	40	$\mu g/m3$	"	"		"	"	
Ethyl-tert-butylether	ND	40	μg/m3	"	"		"	"	
Di-isopropylether	ND	40	μg/m3	"	"		"	"	
tert-amylmethylether	ND	40	μg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	μg/m3	"	"		"	"	
Gasoline Range Organics (C4-C12)	ND	2000	μg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	μg/m3	"	"		"	"	
n-Heptane (LCC)	ND	80	$\mu g/m3$	"	"		"	"	
Surrogate: Toluene-d8	103.23 %	60	- 140						
Surrogate: Dibromofluoromethane	90.91 %	60	- 140						
Surrogate: 4-Bromofluorobenzene	97.26 %	60	- 140						

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JUL



Ninyo & Moore 475 Goddard, Suite 200 Irvine, CA 92618 Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2304089 - EPA 8260										
CCV 1										
Benzene	11	8	%	10		112	80 - 120		120	
Chlorobenzene	11	8	%	10		112	80 - 120		120	
1,1-Dichloroethene	11	8	%	10		112	80 - 120		120	
cis-1,2-Dichloroethene	11	8	%	10		113	80 - 120		120	
Ethylbenzene	11	8	%	10		109	80 - 120		120	
Tetrachloroethene	10	8	%	10		101	80 - 120		120	
Toluene	12	8	%	10		117	80 - 120		120	
1,1,1-Trichloroethane	8	8	%	10		84	80 - 120		120	
Trichloroethene	10	8	%	10		102	80 - 120		120	
1,2,4-Trimethylbenzene	11	8	%	10		107	80 - 120		120	
Vinyl chloride	12	8	%	10		120	80 - 120		120	

001									
LCS 1									
Benzene	3.13	8	%	2.5	125	70 - 130			
Chlorobenzene	3.04	8	%	2.5	122	70 - 130			
1,1-Dichloroethene	3.13	8	%	2.5	125	60 - 140			
cis-1,2-Dichloroethene	2.99	8	%	2.5	119	70 - 130			
Ethylbenzene	2.86	8	%	2.5	114	70 - 130			
Tetrachloroethene	2.71	8	%	2.5	108	70 - 130			
Toluene	3.22	8	%	2.5	129	70 - 130			
1,1,1-Trichloroethane	2.03	8	%	2.5	81	70 - 130			
Trichloroethene	2.80	8	%	2.5	112	70 - 130			
1,2,4-Trimethylbenzene	2.52	8	%	2.5	101	70 - 130			
Vinyl chloride	2.96	8	%	2.5	119	60 - 140			
Surrogate: Toluene-d8		104.61 %	60 - 140						
Surrogate: Dibromofluoromethane		101.10 %	60 - 140						
Surrogate: 4-Bromofluorobenzene		100.50 %	60 - 140						
CSD 1									
Benzene	3.14	8	%	2.5	125	70 - 130	0.06	130	
Chlorobenzene	3.07	8	%	2.5	123	70 - 130	1.07	130	

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Colby Wakeman Lab Director



Ninyo & Moore 475 Goddard, Suite 200 Irvine, CA 92618 Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2304089 - EPA 8260										
LCSD 1										
1,1-Dichloroethene	3.08	8	%	2.5		123	60 - 140	1.61	140	
cis-1,2-Dichloroethene	3.07	8	%	2.5		123	70 - 130	2.83	130	
Ethylbenzene	2.73	8	%	2.5		109	70 - 130	4.47	130	
Tetrachloroethene	2.61	8	%	2.5		104	70 - 130	3.55	130	
Toluene	3.15	8	%	2.5		126	70 - 130	2.15	130	
1,1,1-Trichloroethane	1.92	8	%	2.5		77	70 - 130	5.45	130	
Trichloroethene	2.97	8	%	2.5		119	70 - 130	6.01	130	
1,2,4-Trimethylbenzene	2.48	8	%	2.5		99	70 - 130	1.67	130	
Vinyl chloride	2.77	8	%	2.5		111	60 - 140	6.91	140	
Surrogate: Toluene-d8		103.55 %	60 - 140							
Surrogate: Dibromofluoromethane		97.89 %	60 - 140							
Surrogate: 4-Bromofluorobenzene		99.67 %	60 - 140							
Method Blank 1										
Benzene	ND	8	μg/m3							
Bromodichloromethane	ND	8	μg/m3							
Bromoform	ND	8	μg/m3							
n-Butylbenzene	ND	12	μg/m3							
sec-Butylbenzene	ND	12	μg/m3							
tert-Butylbenzene	ND	12	μg/m3							
Carbon tetrachloride	ND	8	μg/m3							
Chlorobenzene	ND	8	μg/m3							
Chloroform	ND	8	μg/m3							
Dibromochloromethane	ND	8	μg/m3							
1,2-Dibromoethane (EDB)	ND	8	μg/m3							
1,2-Dichlorobenzene	ND	16	μg/m3							
1,3-Dichlorobenzene	ND	16	μg/m3							
1,4-Dichlorobenzene	ND	16	μg/m3							
Freon 12	ND	16	μg/m3							
Freon 11	ND	16	μg/m3							
Freon 113	ND	16	μg/m3							
1,1-Dichloroethane	ND	8	μg/m3							
1,2-Dichloroethane	ND	8	μg/m3							
1,1-Dichloroethene	ND	8	μg/m3							
cis-1,2-Dichloroethene	ND	8	μg/m3							
4.0.01.11										

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trans-1,2-Dichloroethene

Jell

ND

8

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Colby Wakeman Lab Director $\mu g/m3$



Ninyo & Moore 475 Goddard, Suite 200

Irvine, CA 92618

Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

Volatile Organic Compounds by EPA 8260 - Quality Control

		Reporting		Spike	Source		%REC		%REC	
Analyte Re	esult	Limit	Units	Level	Result	%REC	Limits	RPD	Limits	Notes

Batch QC2304089 - EPA 8260

Method Blank 1				
Ethylbenzene	ND	8	μg/m3	
Isopropylbenzene	ND	8	μg/m3	
4-Isopropyltoluene	ND	8	μg/m3	
Methylene chloride	ND	8	μg/m3	
Naphthalene	ND	40	μg/m3	
n-Propylbenzene	ND	8	μg/m3	
Styrene	ND	8	μg/m3	
1,1,1,2-Tetrachloroethane	ND	8	μg/m3	
1,1,2,2-Tetrachloroethane	ND	16	μg/m3	
Tetrachloroethene	ND	8	μg/m3	
Toluene	ND	8	μg/m3	
1,1,1-Trichloroethane	ND	8	μg/m3	
1,1,2-Trichloroethane	ND	8	μg/m3	
Trichloroethene	ND	8	μg/m3	
1,2,4-Trimethylbenzene	ND	8	$\mu g/m3$	
1,3,5-Trimethylbenzene	ND	8	$\mu g/m3$	
Vinyl chloride	ND	8	$\mu g/m3$	
m,p-Xylene	ND	16	$\mu g/m3$	
o-Xylene	ND	8	$\mu g/m3$	
Methyl-tert-butylether	ND	40	$\mu g/m3$	
Ethyl-tert-butylether	ND	40	$\mu g/m3$	
Di-isopropylether	ND	40	$\mu g/m3$	
tert-amylmethylether	ND	40	$\mu g/m3$	
tert-Butylalcohol	ND	400	$\mu g/m3$	
Gasoline Range Organics (C4-C12)	ND	2000	$\mu g/m3$	
n-Hexane (LCC)	ND	80	$\mu g/m3$	
n-Pentane (LCC)	ND	80	$\mu g/m3$	
n-Heptane (LCC)	ND	80	μg/m3	
Surrogate: Toluene-d8		100.98 %	60 - 140	
Surrogate: Dibromofluoromethane		97.30 %	60 - 140	
Surrogate: 4-Bromofluorobenzene		96.49 %	60 - 140	
Sample Blank 1				
Benzene	ND	8	$\mu g/m3$	
Bromodichloromethane	ND	8	μg/m3	
Bromoform	ND	8	μg/m3	

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Colby Wakeman Lab Director



Ninyo & Moore Project: 211936010 475 Goddard Suite 200 Project Number: 211936010

475 Goddard, Suite 200Project Number: 211936010ReportedIrvine, CA 92618Project Manager: Dennis Fee04/10/23 10:09

Volatile Organic Compounds by EPA 8260 - Quality Control

		Reporting		Spike	Source		%REC		%REC		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limits	Notes	

Dotob	OC2304089 -	TOD A	9260
Batch	UU.2304089 -	EPA	8200

Sample Blank 1					
n-Butylbenzene	ND	12	μg/m3	_	
sec-Butylbenzene	ND	12	μg/m3		
tert-Butylbenzene	ND	12	μg/m3		
Carbon tetrachloride	ND	8	μg/m3		
Chlorobenzene	ND	8	μg/m3		
Chloroform	ND	8	μg/m3		
Dibromochloromethane	ND	8	μg/m3		
1,2-Dibromoethane (EDB)	ND	8	μg/m3		
1,2-Dichlorobenzene	ND	16	μg/m3		
1,3-Dichlorobenzene	ND	16	μg/m3		
1,4-Dichlorobenzene	ND	16	μg/m3		
Freon 12	ND	16	μg/m3		
Freon 11	ND	16	μg/m3		
Freon 113	ND	16	μg/m3		
1,1-Dichloroethane	ND	8	μg/m3		
1,2-Dichloroethane	ND	8	μg/m3		
1,1-Dichloroethene	ND	8	μg/m3		
cis-1,2-Dichloroethene	ND	8	μg/m3		
trans-1,2-Dichloroethene	ND	8	μg/m3		
Ethylbenzene	ND	8	μg/m3		
Isopropylbenzene	ND	8	μg/m3		
4-Isopropyltoluene	ND	8	μg/m3		
Methylene chloride	ND	8	$\mu g/m3$		
Naphthalene	ND	40	$\mu g/m3$		
n-Propylbenzene	ND	8	$\mu g/m3$		
Styrene	ND	8	$\mu g/m3$		
1,1,1,2-Tetrachloroethane	ND	8	$\mu g/m3$		
1,1,2,2-Tetrachloroethane	ND	16	μg/m3		
Tetrachloroethene	ND	8	μg/m3		
Toluene	ND	8	μg/m3		
1,1,1-Trichloroethane	ND	8	μg/m3		
1,1,2-Trichloroethane	ND	8	μg/m3		
Trichloroethene	ND	8	μg/m3		
1,2,4-Trimethylbenzene	ND	8	$\mu g/m3$		
1,3,5-Trimethylbenzene	ND	8	μg/m3		
Vinyl chloride	ND	8	μg/m3		
m,p-Xylene	ND	16	μg/m3		

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Colby Wakeman Lab Director



Ninyo & Moore 475 Goddard, Suite 200

Irvine, CA 92618

Project: 211936010 Project Number: 211936010 Project Manager: Dennis Fee

Reported 04/10/23 10:09

Volatile Organic Compounds by EPA 8260 - Quality Control

		Reporting		Spike	Source		%REC		%REC		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limits	Notes	

Batch QC2304089 - EPA 8260

Sample Blank 1			
o-Xylene	ND	8	μg/m3
Methyl-tert-butylether	ND	40	$\mu g/m3$
Ethyl-tert-butylether	ND	40	$\mu g/m3$
Di-isopropylether	ND	40	$\mu g/m3$
tert-amylmethylether	ND	40	$\mu g/m3$
tert-Butylalcohol	ND	400	$\mu g/m3$
Gasoline Range Organics (C4-C12)	ND	2000	$\mu g/m3$
n-Hexane (LCC)	ND	80	$\mu g/m3$
n-Pentane (LCC)	ND	80	$\mu g/m3$
n-Heptane (LCC)	ND	80	$\mu g/m3$
Surrogate: Toluene-d8		103.62 %	60 - 140
Surrogate: Dibromofluoromethane		93.79 %	60 - 140
Surrogate: 4-Bromofluorobenzene		99.86 %	60 - 140

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Ninyo & Moore Project: 211936010

475 Goddard, Suite 200Project Number: 211936010ReportedIrvine, CA 92618Project Manager: Dennis Fee04/10/23 10:09

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

E Estimated Concentration; concentration exceeds calibration range.

LCC Leak Check Compound

Recovery outside of acceptable limits. LCS/LCSD recoveries and %RSD were within QC limits, therefore data was accepted.

SMSR Sample matrix prevented adequate surrogate recovery.

J Value less than PQL but greater than MDL

HHSR High hydrocarbon concentration in this sample prevented adequate surrogate recovery.

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11007 Forest PI. Santa Fe Springs, CA 90670 (714) 449-9937 Fax (714) 449-9685 www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client Ninyo & Moore Project Name		Date 4/6/202 Client Project #		1P)	urge Numbe	□ 10F	,		EDD_ EDF*-1			Jones Project #				
49th Street Elementa	ry School	PEA	-			2119360	10	Shut	-In Test: (Y	N		- 2	*Global	D		
Project Address 750 E. 49th Street						Turn Around Re		øn-penta		1	Ana	lysis	Requ	este	1	Page 1 of 2
Los Angeles, CA 900 Email	11					Rush 24 Hours Rush 48 Hours Rush 72 Hours Normal		n-hexa n-propa lsoprop	anol oyl Alchohol	M)		ORGANICS		(In/H ₂ O)		Sample Container:
Phone						Mobile Lab Reportin	g Limits	1 her		Material (I	(\$2)	GE OR		/ul) mni	iners	GASTIGHT GLASS SYRINGE If different than above, see Notes.
Report To Sampler Dennis Fee Madison Jones						Standard	Low Level* surcharge for		units Mg/m3	Matrix:	8260B (VOCs)	INE RANGE		elic Vacuum	of Containers	
Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Soll Gas (S	EPA 826	GASOLINE		Magnehelic	Number	Notes & Special Instructions
SV-1-15'	3	1470	4/6/23	8:20	8:20	J230852-001	200	SUNNY	118012	SG	X	X		<2	1	
SV-1-15' REP	-	- 13	4/6/23	8:23	8:35	J230852-002			118012	SG	X	Х		<2	1	
SV-1-5'	3	1310	4/6/23	8:37	8:52	J230852-003	200	ZARAK	M100.007	SG	Х	X		<2	1	
SV-2-5'	3	1310	4/6/23	9:06	9:08	J230852-004	200	SUNNY	M100.500	SG	X	х		<2	1	
SV-2-15'	3	1470	4/6/23	9:26	9:27	J230852-005	200	ZARAK	M100.501	SG	X	Х		<2	1	
SV-3-5'	3	1310	4/6/23	9:35	9:43	J230852-006	200	SUNNY	118012	SG	X	Х		10	1	
SV-3-15'	3	1470	4/6/23	9:49	9:59	J230852-007	200	ZARAK	M100.007	SG	X	×		<2	1	
SV-4-5'	3	1310	4/6/23	10:09	10:16	J230852-008	200	SUNNY	M100.500	SG	X	X		<2	1	
SV-4-15'	3	1470	4/6/23	10:18	10:32	J230852-009	200	ZARAK	M100.501	SG	Х	х		<2	1	
SV-5-5'	3	1310	4/6/23	10:45	10:48	J230852-010	200	SUNNY	118012	SG	X	х		<2	1	
Representative Signature		Printed Nan Aileen Chea				Laboratory Signature	N. "	M		ed Nar					10	Total Number of Containers
Company Date Time Ninyo & Moore 4/6/2023 12:00					:00	Company JONES ENVIRONMENTA	AL, INC.	,	Date	4/6/202	3	Tim	12:00			
Representative Signature Printed Name					Laboratory Signature	Printed Name							Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct			
Company Date Time					Company	Date Time					ie		and accurate.			



11007 Forest PI. Santa Fe Springs, CA 90670 (714) 449-9937 Fax (714) 449-9685 www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Ninyo & Moore						Date	Purge Number: □ 1P ▼3P □ 7P □ 10P					Report Options EDD						Jones Project #			
Project Name						4/6/202 Client Project #	3	o IP	SP DIP	0 101			EDF*	- 10%	Sur	charg	je	7.4			
49th Street Elementa	ry School	PEA				2119360	10	Shut	-In Test: (Y	N			*Globa	al ID _					J2308	52	
Project Address																		-			
750 E. 49th Street						Turn Around Re	quested	Tr	racer		Ana	lysis	Red	ques	sted			Page			
	A.V					□ Immediate Atten	tion	n-penta						1				2	of	2	
Los Angeles, CA 900 Email	111					Rush 48 Hours		n-propa				S						Cample C	a stafe out		
Ciliali						□ Rush 72 Hours			oyl Alchohol	_		ORGANICS			120)			Sample Co	ontainer:		
Phone						□ Normal ✓ Mobile Lab		1,1-DFA perotone		rial (M)		ORG			(In/F	ęσ		GASTIGHT	T GLASS SYRI	NGE	
						Reportin	g Limits	, , ,				IGE		mnn	nnm	ainer	If different than above, see Notes.		otes.		
Report To Sampler Dennis Fee Madison Jones						Standard 🗈		or these limits Mg/In3			(VOCs)	RAI			Vac	Containers	'				
Dennis Fee Madison Jones Purge Sample S					Sample	75	surcharge for	for these limits Mg/in3			8260B	LINE		- 1	helic	ō					
Sample ID	Purge Number	Volume (mL)	Date	Collection Time	Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Soil Gas (S	EPA 8	GASOLINE RANGE			Magnehelic Vacuum (In/H ₂ O)	Number	Not	es & Spec	ial Instruct	ions	
SV-5-15'	3	1470	4/6/23	11:05	11:08	J230852-011	200	ZARAK	M100.007	SG	X	Х			<2	1					
SV-6-5'	3	1310	4/6/23	11:17	11:23	J230852-012	200	SUNNY	M100.500	SG	X	Х			<2	1					
SV-6-15'	3	1470	4/6/23	11:34	11:39	J230852-013	200	ZARAK	M100.501	SG	Х	Х			<2	1					
														T							
														1							
														\exists							
														\exists							
														1							
Representative Signature		Printed Nar	me	-		Laboratory Signature		. 1	Print	ed Nar	ne				-						
Ollin		Aileen Chea	1			Laboratory Signature Mgel	er A	- Ge	K Madi	son Jo	nes					3	Total Numbe	r of Containe	rs		
Company Date Time Ninyo & Moore 4/6/2023 12:60					.00	Company JONES ENVIRONMENTA	0	Date	4/6/202	23	Tir	ne 12:0	00		Clien	at elegature as	this Chair -	of Custody for	m nametikut = =		
Representative Signature Printed Name						Laboratory Signature Printed Name					acknowledg				knowledgeme	ture on this Chain of Custody form constitutes dgement that the above analyses have been and the information provided herein is correct		have been			
Company Date Time						Company Date Time					ne		and accurate.								
					Pa	Page 40 of 40															

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ANALYTICAL REPORT

PREPARED FOR

Attn: Dennis Fee Ninyo & Moore 475 Goddard St. Suite 200 Irvine, California 92618

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JOB DESCRIPTION

Dioxins_211936010

JOB NUMBER

320-98788-1

Eurofins Sacramento 880 Riverside Parkway West Sacramento CA 95605



Eurofins Sacramento

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northern California, LLC Project Manager.

Authorization

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Authorized for release by Linda C. Laver, Senior Project Manager <u>Linda.Laver@et.eurofinsus.com</u> (916)374-4362 3

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1 1

15

Client: Ninyo & Moore Laboratory Job ID: 320-98788-1 Project/Site: Dioxins_211936010

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Definitions/Glossary

Client: Ninyo & Moore Job ID: 320-98788-1

Project/Site: Dioxins_211936010

Qualifiers

Dioxin
Qualifier

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
В	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The
	measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Glossary

MPN

MQL

NC

ND

NEG

POS

PQL

PRES

QC

RER RL

RPD

TEF

TEQ

TNTC

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)

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Case Narrative

Client: Ninyo & Moore

Project/Site: Dioxins_211936010

Job ID: 320-98788-1

Job ID: 320-98788-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative 320-98788-1

Comments

The following samples were submitted on a HOLD basis and canceled on April 27, 2023: B36-2.5 (320-98788-2), B36-5 (320-98788-3) and B36-10 (320-98788-4).

Receipt

The samples were received on 4/11/2023 9:25 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.4° C.

Dioxin

Method 8290A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for Prep Batch 320-667350 was outside control limits for 1,2,3,7,8,9-HxCDD. The percent recoveries (%Rec) were within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dioxin Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Ninyo & Moore Job ID: 320-98788-1

Project/Site: Dioxins_211936010

Client Sample ID: B36-0.5

Lab Sample ID: 320-98788-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,7,8,9-HxCDF	0.13	J B q	5.3	0.0029	pg/g	1	₩	8290A	Total/NA
1,2,3,4,6,7,8-HpCDD	0.46	JB	5.3	0.0059	pg/g	1	₽	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	0.29	JBq	5.3	0.0018	pg/g	1	₩	8290A	Total/NA
OCDD	2.3	JB	11	0.0049	pg/g	1	₩	8290A	Total/NA
OCDE	0.47	I B a	11	0.0084	na/a	1	244	82004	Total/NIA

5

0

8

4.0

11

13

14

15

Client Sample Results

Client: Ninyo & Moore Job ID: 320-98788-1

Project/Site: Dioxins_211936010

Client Sample ID: B36-0.5 Lab Sample ID: 320-98788-1

Date Collected: 04/05/23 14:20 **Matrix: Solid** Date Received: 04/11/23 09:25 Percent Solids: 89.7

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.1	0.0029	pg/g	— <u></u>	04/13/23 04:27	04/22/23 01:14	
2,3,7,8-TCDF	ND		1.1	0.0010	pg/g	☼	04/13/23 04:27	04/22/23 01:14	
1,2,3,7,8-PeCDD	ND		5.3	0.0050	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
1,2,3,7,8-PeCDF	ND		5.3	0.0015	pg/g	₩	04/13/23 04:27	04/22/23 01:14	· · · · · · · · ·
2,3,4,7,8-PeCDF	ND		5.3	0.0016	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
1,2,3,4,7,8-HxCDD	ND		5.3	0.0015	pg/g	₩	04/13/23 04:27	04/22/23 01:14	
1,2,3,6,7,8-HxCDD	ND		5.3	0.0015	pg/g	₩	04/13/23 04:27	04/22/23 01:14	
1,2,3,7,8,9-HxCDD	ND	*1	5.3	0.0014	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
1,2,3,4,7,8-HxCDF	ND		5.3	0.0030	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
1,2,3,6,7,8-HxCDF	ND		5.3	0.0030	pg/g	₩	04/13/23 04:27	04/22/23 01:14	
1,2,3,7,8,9-HxCDF	0.13	JBq	5.3	0.0029	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
2,3,4,6,7,8-HxCDF	ND	-	5.3	0.0025	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
1,2,3,4,6,7,8-HpCDD	0.46	JB	5.3	0.0059	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
1,2,3,4,6,7,8-HpCDF	0.29	JBq	5.3	0.0018	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
1,2,3,4,7,8,9-HpCDF	ND	-	5.3	0.0020	pg/g	₩	04/13/23 04:27	04/22/23 01:14	•
OCDD	2.3	JB	11	0.0049	pg/g	₩	04/13/23 04:27	04/22/23 01:14	
OCDF	0.47	JBq	11	0.0084	pg/g	₩	04/13/23 04:27	04/22/23 01:14	
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
13C-2,3,7,8-TCDD	66		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-2,3,7,8-TCDF	61		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,7,8-PeCDD	73		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,7,8-PeCDF	70		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-2,3,4,7,8-PeCDF	70		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,4,7,8-HxCDD	67		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,6,7,8-HxCDD	71		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,4,7,8-HxCDF	62		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-2,3,4,6,7,8-HxCDF	67		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,6,7,8-HxCDF	61		40 - 135				04/13/23 04:27	04/22/23 01:14	:
13C-1,2,3,7,8,9-HxCDF	62		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,4,6,7,8-HpCDD	75		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,4,6,7,8-HpCDF	61		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-1,2,3,4,7,8,9-HpCDF	66		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-OCDD	66		40 - 135				04/13/23 04:27	04/22/23 01:14	
13C-OCDF	59		40 - 135				04/13/23 04:27	04/22/23 01:14	
General Chemistry									
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fa
Percent Moisture (ASTM D 2216)	10.3		0.1	0.1	%			04/17/23 21:41	

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (ASTM D 2216)	10.3		0.1	0.1	%			04/17/23 21:41	1
Percent Solids (ASTM D 2216)	89.7		0.1	0.1	%			04/17/23 21:41	1

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Isotope Dilution Summary

Client: Ninyo & Moore Job ID: 320-98788-1

Project/Site: Dioxins_211936010

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid Prep Type: Total/NA

_			Perce	ent Isotope	Dilution Re	covery (Ac	ceptance L	imits)	
		TCDD	TCDF	PeCDD	PeCDF	PeCF	HxCDD	HxDD	HxCDF
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
320-98788-1	B36-0.5	66	61	73	70	70	67	71	62
LCS 320-667350/2-A	Lab Control Sample	67	69	76	79	62	57	53	65
LCSD 320-667350/3-A	Lab Control Sample Dup	67	63	70	67	67	65	66	61
MB 320-667350/1-A	Method Blank	67	62	72	71	65	60	66	59
			Perce	ent Isotope	t Isotope Dilution Recovery (Acceptance Limits)				
		13CHxCF	HxDF	HxCF	HpCDD	HpCDF	HpCDF2	OCDD	OCDF
Lab Sample ID	Client Sample ID	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)	(40-135)
320-98788-1	B36-0.5	67	61	62	75	61	66	66	59
LCS 320-667350/2-A	Lab Control Sample	73	65	71	74	63	73	76	74
LCSD 320-667350/3-A	Lab Control Sample Dup	66	63	64	76	60	64	64	59
MB 320-667350/1-A	Method Blank	67	58	62	71	55	61	61	53

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

TCDF = 13C-2,3,7,8-TCDF

PeCDD = 13C-1,2,3,7,8-PeCDD

PeCDF = 13C-1,2,3,7,8-PeCDF

PeCF = 13C-2,3,4,7,8-PeCDF

HxCDD = 13C-1,2,3,4,7,8-HxCDD

HxDD = 13C-1,2,3,6,7,8-HxCDD

HxCDF = 13C-1,2,3,4,7,8-HxCDF

13CHxCF = 13C-2,3,4,6,7,8-HxCDF

HxDF = 13C-1,2,3,6,7,8-HxCDF

HxCF = 13C-1,2,3,7,8,9-HxCDF

HpCDD = 13C-1,2,3,4,6,7,8-HpCDD

HpCDF = 13C-1,2,3,4,6,7,8-HpCDF

HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF

OCDD = 13C-OCDD

OCDF = 13C-OCDF

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3

4

6

9

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14

Client: Ninyo & Moore Job ID: 320-98788-1

Project/Site: Dioxins_211936010

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-667350/1-A

Matrix: Solid

Analysis Batch: 669567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 667350 1

	MB	MB							
Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.0018	pg/g		04/13/23 04:27	04/21/23 22:49	1
2,3,7,8-TCDF	ND		1.0	0.0014	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,7,8-PeCDD	ND		5.0	0.0080	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,7,8-PeCDF	0.361	J	5.0	0.0050	pg/g		04/13/23 04:27	04/21/23 22:49	1
2,3,4,7,8-PeCDF	ND		5.0	0.0063	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,4,7,8-HxCDD	ND		5.0	0.0090	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,6,7,8-HxCDD	ND		5.0	0.0087	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,7,8,9-HxCDD	0.400	Jq	5.0	0.0081	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,4,7,8-HxCDF	0.286	Jq	5.0	0.0076	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,6,7,8-HxCDF	0.320	Jq	5.0	0.0078	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,7,8,9-HxCDF	0.380	J	5.0	0.0069	pg/g		04/13/23 04:27	04/21/23 22:49	1
2,3,4,6,7,8-HxCDF	0.401	J	5.0	0.0063	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,4,6,7,8-HpCDD	0.539	J	5.0	0.0077	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,4,6,7,8-HpCDF	0.650	J	5.0	0.0012	pg/g		04/13/23 04:27	04/21/23 22:49	1
1,2,3,4,7,8,9-HpCDF	0.555	J	5.0	0.0013	pg/g		04/13/23 04:27	04/21/23 22:49	1
OCDD	1.99	Jq	10	0.014	pg/g		04/13/23 04:27	04/21/23 22:49	1
OCDF	1.02	J	10	0.015	pg/g		04/13/23 04:27	04/21/23 22:49	1

OCDF	1.02 J	J	10	0.015 pg/g	04/13/23 04:27	04/21/23 22:49	1
	MB I	МВ					
Isotope Dilution	%Recovery (Qualifier	Limits		Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	67		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-2,3,7,8-TCDF	62		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,7,8-PeCDD	72		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,7,8-PeCDF	71		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-2,3,4,7,8-PeCDF	65		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,4,7,8-HxCDD	60		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,6,7,8-HxCDD	66		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,4,7,8-HxCDF	59		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-2,3,4,6,7,8-HxCDF	67		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,6,7,8-HxCDF	58		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,7,8,9-HxCDF	62		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,4,6,7,8-HpCDD	71		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,4,6,7,8-HpCDF	55		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-1,2,3,4,7,8,9-HpCDF	61		40 - 135		04/13/23 04:27	04/21/23 22:49	1
13C-OCDD	61		40 - 135		04/13/23 04:27	04/21/23 22:49	1

40 - 135

Lab Sample ID: LCS 320-667350/2-A

53

Matrix: Solid

13C-OCDF

Analysis Batch: 670441

Client Sample ID: Lab Control Sample Prep Type: Total/NA **Prep Batch: 667350**

04/13/23 04:27 04/21/23 22:49

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
2,3,7,8-TCDD	20.0	18.6		pg/g		93	73 - 141	
2,3,7,8-TCDF	20.0	19.2		pg/g		96	71 - 153	
1,2,3,7,8-PeCDD	100	85.1		pg/g		85	77 - 126	
1,2,3,7,8-PeCDF	100	81.4		pg/g		81	72 - 128	
2,3,4,7,8-PeCDF	100	90.9		pg/g		91	72 - 127	
1,2,3,4,7,8-HxCDD	100	82.6		pg/g		83	73 - 126	
1,2,3,6,7,8-HxCDD	100	91.1		pg/g		91	76 - 142	
1,2,3,7,8,9-HxCDD	100	106		pg/g		106	70 - 136	

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QC Sample Results

Spike

Added

100

100

100

100

100

Client: Ninyo & Moore Job ID: 320-98788-1

Project/Site: Dioxins_211936010

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-667350/2-A **Matrix: Solid**

1,2,3,4,7,8-HxCDF

1,2,3,6,7,8-HxCDF

1,2,3,7,8,9-HxCDF 2,3,4,6,7,8-HxCDF

1,2,3,4,6,7,8-HpCDD

1,2,3,4,6,7,8-HpCDF

1,2,3,4,7,8,9-HpCDF

Matrix: Solid

Analyte

OCDD

OCDF

Analysis Batch: 670441

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS	LCS				Prep Batch: 667350 %Rec
Result	Qualifier	Unit	D	%Rec	Limits
89.2		pg/g		89	73 - 127
90.8		pg/g		91	77 - 126
86.9		pg/g		87	77 - 125

77 - 126

79 - 121

88

83

100 89.4 pg/g 89 78 - 138 100 85.0 85 76 - 123 pg/g 200 86 172 pg/g 76 - 136 200 182 pg/g 91 75 - 130

pg/g

pg/g

88.1

83.2

LCS LCS

	LCS	LUS	
Isotope Dilution	%Recovery	Qualifier	Limits
13C-2,3,7,8-TCDD	67		40 - 135
13C-2,3,7,8-TCDF	69		40 - 135
13C-1,2,3,7,8-PeCDD	76		40 - 135
13C-1,2,3,7,8-PeCDF	79		40 - 135
13C-2,3,4,7,8-PeCDF	62		40 - 135
13C-1,2,3,4,7,8-HxCDD	57		40 - 135
13C-1,2,3,6,7,8-HxCDD	53		40 - 135
13C-1,2,3,4,7,8-HxCDF	65		40 - 135
13C-2,3,4,6,7,8-HxCDF	73		40 - 135
13C-1,2,3,6,7,8-HxCDF	65		40 - 135
13C-1,2,3,7,8,9-HxCDF	71		40 - 135
13C-1,2,3,4,6,7,8-HpCDD	74		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	63		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	73		40 - 135
13C-OCDD	76		40 - 135
13C-OCDF	74		40 - 135

Lab Sample ID: LCSD 320-667350/3-A

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 667350**

Analysis Batch: 669567 LCSD LCSD Spike %Rec **RPD** Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit 2,3,7,8-TCDD 20.0 18.9 pg/g 95 73 - 141 2 20 2,3,7,8-TCDF 20.0 18.5 pg/g 93 71 - 153 20 86.2 86 20 1,2,3,7,8-PeCDD 100 77 - 126 pg/g 1,2,3,7,8-PeCDF 100 85.8 86 72 - 128 20 pg/g 100 86 72 - 127 20 2,3,4,7,8-PeCDF 86.3 pg/g 5 1,2,3,4,7,8-HxCDD 100 83.4 83 73 - 126 20 pg/g 7 20 1,2,3,6,7,8-HxCDD 100 84 6 pg/g 85 76 - 142 1,2,3,7,8,9-HxCDD 100 85.1 *1 pg/g 85 70 - 136 22 20 1,2,3,4,7,8-HxCDF 100 84.5 84 73 - 127 5 20 pg/g 1,2,3,6,7,8-HxCDF 100 85.1 85 77 - 126 6 20 pg/g 100 86.3 86 77 - 125 20 1,2,3,7,8,9-HxCDF pg/g 77 - 126 100 87 20 2,3,4,6,7,8-HxCDF 87.4 pg/g 79 1,2,3,4,6,7,8-HpCDD 100 78.8 79 - 121 20 pg/g 1,2,3,4,6,7,8-HpCDF 100 87.3 pg/g 87 78 - 138 2 20 1,2,3,4,7,8,9-HpCDF 100 84.1 pg/g 84 76 - 123 20 OCDD 200 170 85 76 - 136 20 pg/g

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QC Sample Results

Job ID: 320-98788-1

Client: Ninyo & Moore Project/Site: Dioxins_211936010

Lab Sample ID: LCSD 320-667350/3-A			Client Sample ID: Lab Control Sample Dup
Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 669567			Prep Batch: 667350
	Spike	LCSD LCSD	%Rec RPD

Analysis Batch: 669567									Prep B	atcn: 60	3/350
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
OCDF			200	177		pg/g		89	75 - 130	3	20
	LCSD	LCSD									
Isotope Dilution	%Recovery	Qualifier	Limits								
13C-2,3,7,8-TCDD	67		40 - 135								
13C-2,3,7,8-TCDF	63		40 - 135								
13C-1,2,3,7,8-PeCDD	70		40 - 135								
13C-1,2,3,7,8-PeCDF	67		40 - 135								
13C-2,3,4,7,8-PeCDF	67		40 - 135								
13C-1,2,3,4,7,8-HxCDD	65		40 - 135								
13C-1,2,3,6,7,8-HxCDD	66		40 - 135								
13C-1,2,3,4,7,8-HxCDF	61		40 - 135								
13C-2,3,4,6,7,8-HxCDF	66		40 - 135								
13C-1,2,3,6,7,8-HxCDF	63		40 - 135								
13C-1,2,3,7,8,9-HxCDF	64		40 - 135								
13C-1,2,3,4,6,7,8-HpCDD	76		40 - 135								
13C-1,2,3,4,6,7,8-HpCDF	60		40 - 135								
13C-1,2,3,4,7,8,9-HpCDF	64		40 - 135								
13C-OCDD	64		40 - 135								
13C-OCDF	59		40 - 135								

QC Association Summary

Client: Ninyo & Moore

Project/Site: Dioxins_211936010

Job ID: 320-98788-1

Specialty Organics

Prep Batch: 667350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-98788-1	B36-0.5	Total/NA	Solid	8290	
MB 320-667350/1-A	Method Blank	Total/NA	Solid	8290	
LCS 320-667350/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-667350/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	

Analysis Batch: 669567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-98788-1	B36-0.5	Total/NA	Solid	8290A	667350
MB 320-667350/1-A	Method Blank	Total/NA	Solid	8290A	667350
LCSD 320-667350/3-A	Lab Control Sample Dup	Total/NA	Solid	8290A	667350

Analysis Batch: 670441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-667350/2-A	Lab Control Sample	Total/NA	Solid	8290A	667350

General Chemistry

Analysis Batch: 668260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-98788-1	B36-0.5	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Ninyo & Moore Job ID: 320-98788-1

Project/Site: Dioxins_211936010

Analysis

D 2216

Client Sample ID: B36-0.5 Lab Sample ID: 320-98788-1

Date Collected: 04/05/23 14:20

Date Received: 04/11/23 09:25

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Method **Factor** or Analyzed **Prep Type** Type Run **Amount Amount** Number Analyst Lab

Client Sample ID: B36-0.5

Date Collected: 04/05/23 14:20

Lab Sample ID: 320-98788-1

Matrix: Solid

668260

04/17/23 21:41 JP

Date Received: 04/11/23 09:25 Percent Solids: 89.7

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.59 g	20.0 uL	667350	04/13/23 04:27	FC	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	669567	04/22/23 01:14	GRB	EET SAC

Laboratory References:

Total/NA

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

0

3

4

6

EET SAC

7

0

10

12

13

Accreditation/Certification Summary

Client: Ninyo & Moore Job ID: 320-98788-1

Project/Site: Dioxins_211936010

Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
California	Sta	ate	2897	01-22-24
the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes
,	•	ort, but the laboratory is r Matrix	not certified by the governing authority. Analyte	I his list may include analytes
the agency does not	offer certification.	,	, , ,	I his list may include analytes

•

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Method Summary

Client: Ninyo & Moore

Project/Site: Dioxins_211936010

Method **Method Description** Protocol Laboratory 8290A Dioxins and Furans (HRGC/HRMS) SW846 EET SAC D 2216 Percent Moisture **ASTM EET SAC** 8290 Soxhlet Extraction of Dioxins and Furans SW846 **EET SAC**

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Job ID: 320-98788-1

Sample Summary

Client: Ninyo & Moore Project/Site: Dioxins_211936010 Job ID: 320-98788-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-98788-1	B36-0.5	Solid	04/05/23 14:20	04/11/23 09:25

134330 ECORD 18:00 DATE: 4/5/23 HOLD OF LAB CONTACT OR QUOTE NO CHAIN-OF-CUSTOR Time: Aileen Chea ADPSB YOUR FURNITY BENIXOID SAMPLER(S): (PRINT) Cr(VI) □ 7196 □ 7199 □ 218.6 PAGE: T22 Metals □ 6010/747X □ 6020/747X Please check box or fill in blank as needed REQUESTED ANALYSES MIS 0728 □ 0728 □ 2HA9 Sc 12 PCBs (8082) Pesticides (8081) SAOCs (8570) Prep (5035) 🗆 En Core 🗆 Terra Core FIC Dennis Fee (dfee@ninyoandmoore.com) Oxygenates (8260) AOCs (85e0) □ 0928 □ 38TM \ X3T8 НЫ PROJECT CONTAC TPH □ C6-C36 □ C6-C44 211936010 Received by: (Signature/Affiliation) Received by: (Signature/Affiliation) GLOBAL ID OAG 🗆 (b)H9T 🗆 ОЯЭ□(9)□СВО Field Filtered 2028 Preserved Jupreserved 92618 M STANDARD Time: |866 1500 NO. ZIP For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us. Date: 4/5/23 4/10/23 dfee@ninyoandmoore.com MATRIX ☐ 5 DAYS Soil 320-98788 Chain of Custody S 1420 140 147 1423 ☐ 72 HR TIME 2841 Dow Avenue, Suite 100, Tustin, CA 92780 • (714) 895-5494 **Environment Testing** SAMPLING 15/23 DATE ☐ 48 HR Calscience 4 Ninyo & Moore 475 Goddard, Suite 200 □ OTHER □ 24 HR 320 21439 836-2.5 Relinquished by: (Signature) # B36-0.5 1336-10 B36-5 949-753-7070 SPECIAL INSTRUCTIONS: QUUTE DE LABORATORY CLIENT □ COELT EDF ☐ SAME DAY Irvine USE

Client: Ninyo & Moore Job Number: 320-98788-1

Login Number: 98788 List Source: Eurofins Sacramento

List Number: 1

Creator: Oropeza, Salvador

Creator. Oropeza, Jarvador		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins Sacramento

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2025 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27893A

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 5/11/2023

Date Reported: 5/15/2023

Chain of Custody Received: ✓

Analytical Method: 6010B,

Mark Noorani, Laboratory Director

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference # NAM 27893A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 4°C, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference # NAM 27893A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B40A-0.5	27893-006	5/6/2023	5/6/2023	Soil
B34-NE2-2.5	27893-008	5/6/2023	5/6/2023	Soil

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference # NAM 27893A Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample I	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B40A-0.5			27893-006	5/6/2023 11:	5/6/20	23 8:48	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Arsenic	6010B	2.3	mg/kg	05/10/23 14:25	05/15/23 10:19		1	
B34-NE2-2.5			27893-008	5/6/2023 11:	50 5/6/20	23 9:17	Soil		
	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
	Lead	6010B	94	mg/kg	05/10/23 14:25	05/15/23 10:22		1	
Method Blank	(Soil		
MB ID	<u>ANALYTE</u>	EPA Method	Result	<u>Units</u>	Date Extracted	Date Analyzed	<u>Qual</u>	<u>DF</u>	
MBHV0509232	Arsenic	6010B	<2.0	mg/kg	05/09/23 15:35	05/11/23 11:40		1	
MBHV0509232	Lead	6010B	<0.80	mg/kg	05/09/23 15:35	05/11/23 11:40		1	

QA/QC Report for Metals

Reference #: NAM 27893A Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

6010B

Laboratory Sample #: 27891-021 Date of Extraction: 05/09/23 15:35

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
Arsenic	05/11/23 11:49	05/11/23 11:52	2.80	20.0	22.4	21.5	98	94	4	75-125	20	
Lead	05/11/23 11:49	05/11/23 11:52	2.90	20.0	21.4	20.8	92	89	3	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: HV0509232 Date of Extraction: 05/09/23 15:35

6010B

Analyte	LCS Date of Analysis	LCSD Date of Analysis	SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
Arsenic	05/11/23 11:43	05/11/23 11:46	 20.0	19.1	18.7	96	94	2	80-120	20	
Lead	05/11/23 11:43	05/11/23 11:46	 20.0	19.7	19.3	99	96	2	80-120	20	

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100

%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100

RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

Analysis Request & 0

of Custody Record

Company:

ORANGE COAST ANALYTICAL, INC.

Time:

www.ocalab.com

Lab Job No.:

3002 Dow Avenue,	Suite 532	4620 East Elwood Street, Suite 4						ANALYSIS REQUEST / PRESERVATION										
Tustin, CA 92780					x, AZ 8						an						REC	QUESTED
Phone: (714) 832-0064	Fax: (714) 832-0067			Phone:	(480) 736	-0960 Fax: (480)	736-0	0970				Ø						ROUND-TIME
CUSTOMER INFORMATIO	N	PROJECT INFORMATION						Q	0					Standard	:			
Company: Ninyo & Moore	F	Project Name: LAUSD 49th Street PEA							EPA GOIOS	3								
Send Report To: Dennis Fee	F	Project Number: 211936010							4		72 Hou	ır: 🔀						
Email: <u>dfee@ninyoandmoore.com</u>	Į F	PO #:									3	9						
Address: 475 Goddard	} -			ity / Sta		Los Angeles, C	CA					ð					48 Hou	r:
Irvine, CA 92618						<u>eedd</u>					Arsenic							
Phone: (949) 753-7070 Fax:	S	Samp No.		késkérozotaniené	AND PROPERTY OF THE PARTY OF TH	Cheq	l c-	mple	T		84	3					24 Hou	r:
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B4-W3-2.5						0815		1									HOLD	>
B41A-0.5		T				0837					X							
B40A-0.5		7				0848											HOLT	>
B34-NE2-0.5						8090	1			1							HOLT	
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2 B34-NW2-0.5		\neg			!	0938											HOU	>
B34-NW2-2.5						0944											HOLL	
B34-SW-0.5			/			0950			,	1		X						-
	hod of Shipment:								Preser	vative:		= ice	2 = HC	l 3=	HNO₃	4 = H ₂ SO ₄	5 = NaOH	6 = Other
Relinquished By: A:leen Chea/Ollu	Date: 5/6/2	3		Receive	ed By:					Date	2:			Samı	ple Matr	ix:	DW - Drinl	king Water
A. leer Chear Colon	Time: 1150									Time	e:			G\V	d - Group	ndwater		
Company: Ninyo & Moore				Compa	ny:									GV.	v - Groui	iuwatei	AQ - Aque	ous
Relinquished By:	Date:			Receive	ed By:					Date	e:			W۱	W - Wast	tewater	SS - Soil / S	solid
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Company:						ICA Bu												
Relinquished By:	Date:				ed For O					Date	: 5,	16/2	.3	Sam	ole Integ	rity:	4.0+0	24.52

Company: OCPSCA

Time: 1150

		Analysis Re	quest & (ı of	Custody R	lecoi	^d				tion .			
ORANGE COAST ANALY	TICAL, INC.		www.	ocalab.c	com	Lab	Job No	: 2	.78	χ_{2}	<u> </u>	Page:	2	of 2.
3002 Dow Avenue, Suite		4620 East Elwood Street, Suite 4						ANALYSIS REQUEST / PRESERVATION						
Tustin, CA 92780		Phoenix, AZ 8					i i							
Phone: (714) 832-0064 Fax: (714) 832-0067	•	5-0960 Fax: (480)	736-0970		Ø	~0						201220200000000000000000000000000000000	QUESTED ROUND-TIME
CUSTOMER INFORMATION		PRC	JECT INFORMA	EPA GOINE	80109						Standard:	The London Marie of the San San San San San San San San San San		
Company: Ninyo & Moore	Project N	ame: LAU	SD 49th Street	72	Č									
Send Report To: Dennis Fee	Project N	umber: 211	936010				&						72 Hour	· ×
Email: <u>dfee@ninyoandmoore.com</u>	PO #:						6							
Address: 475 Goddard	Address (City / State):	Los Angeles, C	CA .	***	3	5						48 Hour	*
Irvine, CA 92618	EDD Requ	ired: Schlo	eedo			7/2	٩							
Phone: (949) 753-7070 Fax:	Sampled	By: Aile	1 Chea			Arsen	8						24 Hour	:
Customer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix	Container Type	A	3						REMARKS	/ INSTRUCTIONS
B34-SW-2.5	1	5/6/23	0954	SS	902 jav		X	İ	İ		İ			
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No. of Samples: 3 Method of Relinquished By:		Daneline I Do			Preservative:	-(1	= ice	2 = HC	3 =	HNO ₃	4 =	H ₂ SO ₄	5 = NaOH	6 = Other
1 A-1 A () ()	Date: 6/6/23 Time: 11 50	Received By:			Date				Samp	le Mat	rix:		DW - Drinki	ing Water
Company: Ninyo & Moore	ine. 11 30	Company:			Tim	e:			GW	' - Groι	ındwate	er	AQ - Aqueo	us
Polinguished By:	Pate:	Received By:			Date	e:			wv	V - Was	stewate		·	
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Relinquished By:	Pate:	Received For C	OCA By:		Date	e: 5	-6-	23	Samp	le Inte	grity:		4.	to24.
Т	ime:	mak 2	1)				150				•	_	``	1124.0°C
Company:		Company: & C	A, CA						Intact: On Ice				es)/No @	

Sample Receipt Report

Laboratory Reference	ce NAM 27893			Logged in by	MM
Received:	05/06/23 1		Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delive	ered	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	·	Project Name:	LAUSD 49th Stree	t PEA
# Shipping Containers:		1	Project #:	211936010	
Sample Quantity 17 Soil	11 1 2 2 2000				
Chain of Custody		С	omplete 🗹	Incomplete	None 🗌
Samples On Ice		Υ	′es, Wet 🗸	Yes, Blue	No 🗌
Observed Temp. (°C)): 4	Thermometer	ID: IR#3	Adjusted Temp.:	4+(-0)=4
Shipping Intact			Yes 🗌	N/A 🔽	No 🗌
Shipping Custody Se	als Intact		Yes 🗌	N/A 🗸	No 🗌
Samples Intact			Yes 🗸		No 🗌
Sample Custody Sea	ls Intact		Yes	N/A 🗸	No 🗌
Custody Seals Signe	d & Dated		Yes 🗌	N/A 🗸	No 🗌
Proper Test Containe	ers		Yes 🗸		No 🗌
Proper Test Preserva	ations		Yes 🗸		No 🗌
Samples Within Hold	Times		Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace		Yes 🗌	N/A 🗸	No 🗌
Sample Labels		С	omplete 🗹	Incomplete	None
Sample Information I	Matches COC		Yes 🗹	N/A _	No 🗌
Notes					
		•			

Orange Coast Analytical, Inc.



3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067 4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.:2576 Expiration Date: 2025 Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name: Mark Noorani

Client: Ninyo & Moore

Laboratory Reference: NAM 27893B

Project Name: LAUSD 49th Street PEA

Project Number: 211936010

Date Received: 5/12/2023

Date Reported: 5/16/2023

Chain of Custody Received: 🔽

Analytical Method: 6010B,

Mark Noorani, Laboratory Director

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27893B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 4ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27893B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4-W3-0.5	27893-003	5/6/2023	5/6/2023	Soil
B41A-0.5	27893-005	5/6/2023	5/6/2023	Soil

Mr. Dennis Fee Ninyo & Moore 475 Goddard Ste 200 Irvine, CA, 92618 Lab Reference #: NAM 27893B Project Name: LAUSD 49th Street PEA

Project #: 211936010

Metals

Client Sample	ID		Lab Sample Number	Date Received	Date Sampl		Matrix		
B4-W3-0.5			27893-003	5/6/2023 11:	5/6/20	23 8:13	Soil		
	ANALYTE STLC Arsenic	EPA Method 6010B	Result 3.2	<u>Units</u> mg/L	<u>Date Extracted</u> 05/15/23 16:30	<u>Date Analyzed</u> 05/16/23 13:31	Qual 	<u>DF</u> 1	
B41A-0.5			27893-005	5/6/2023 11:	5/6/20	23 8:37	Soil		
	ANALYTE STLC Arsenic	EPA Method 6010B	Result 6.6	<u>Units</u> mg/L	<u>Date Extracted</u> 05/15/23 16:30	<u>Date Analyzed</u> 05/16/23 13:35	<u>Qual</u> 	<u>DF</u> 1	
Method Blank	(Soil		
MB ID MBHV0515236	ANALYTE STLC Arsenic	EPA Method 6010B	Result <0.20	<u>Units</u> mg/L	<u>Date Extracted</u> 05/15/23 16:30	<u>Date Analyzed</u> 05/16/23 13:09	<u>Qual</u> 	<u>DF</u> 1	

QA/QC Report for Metals

Reference #: NAM 27893B Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

STLC CCR

Laboratory Sample #: 27893-003 Date of Extraction: 05/15/23 16:30

Analyte	MS Date of Analysis	MSD Date of Analysis	R1	SPC CONC	MS	MSD	% MS	% MSD	RPD	ACP %MS	ACP RPD	Qualifiers
STLC Arsenic	05/16/23 13:18	05/16/23 13:28	3.20	1.00	4.36	4.26	116	106	2	75-125	20	

Laboratory Control Spike (LCS) / Laboratory Control Spike Duplicate (LCSD)
Laboratory Sample #: HV0515236 Date of Extraction: 05/15/23 16:30

STLC CCR

Analyte	LCS Date of Analysis	LCSD Date of Analysis		SPC CONC	LCS	LCSD	% LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qualifiers
STLC Arsenic	05/16/23 13:13	05/16/23 13:15	-	1.00	0.981	0.965	98	96	2	80-120	20	

Definition of terms:

R Result of unspiked laboratory sample used for matrix spike determination.

SP CONC (or Spike Conc.) Spike concentration added to sample or blank

MS Matrix Spike sample result

MSD Matrix Spike Duplicate sample result

%MS Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD) Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2

LCS Laboratory Control Sample result

LCSD Laboratory Control Sample Duplicate result

%LCS Percent recovery of LCS: {(LCS) / SP CONC} x100

%LCSD Percent recovery of LCSD: {(LCSD) / SP CONC} x 100

RPD (for LCS/LCSD) Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS Acceptable percent recovery range for Matrix Spike samples

ACP RPD Acceptable Relative Percent Difference
Detectable, result must be greater than zero

Qual A checked box indicates a data qualifier was utilized and/or required for this analyte

see attached explanation.

ND Analyte Not Detected

Analysis Request & C

of Custody Record

ORANGE COAST ANALYTICAL, INC.

www.ocalab.com

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Page:	- 1

3002	Dow Avenue, Suite 532		4620	East Elw	ood Street, Suit	e 4				Α	NALYSIS F	REQUES	T/PRE	SERVA	TION		
Tust	n, CA 92780		Phoe	nix, AZ 8	35040											DEC.	UESTED
Phone	e: (714) 832-0064 Fax: (714) 832-0067		Phone	: (480) 736	6-0960 Fax: (480)	736-097	70		Ø	Ø							ROUND-TIME
CUSTOME	INFORMATION			PRO	DJECT INFORMA	TION			EPA 6010	0						Standard:	Tall the Sales Report of the Sales and the S
Company: Ninyo & Moore	2	Project I	Name:	LAL	JSD 49th Street	PEA				9							
Send Report To: Dennis Fe	e	Project I	Number:	211	936010					. L						72 Hour	· _×_
Email: dfee@ninyoandm	oore.com	PO #:							_ Š								
Address: 475 Goddard		—	(City / S		Los Angeles, C	Α										48 Hour	
Irvine, CA 9261	8				eEDD				be Arsenic	1600 by							
Phone: (949) 753-7070	Fax:	Sampled No. of	Soulid RASKS AVERTOR	entine e courte marc	n Chea	Samp	le .	2.00	\ <u>\</u>	8						24 Hour	:
Customer Sample IDs		Container	rs Sam	ple Date	Sample Time	Matr	ix	Container Ty	HOSSINGERG								/ INSTRUCTIONS
1 B4-W4-0.5		1	5/9	0/23	0803	22		90z jar	-	ļ						HOLD	
4 B4-W4-2.5			_	1	9080					,						HOLD	,
3 B4-W3-0.5	1 10 100			<u> </u>	0813				$\perp \times$								
4 B4-W3-2.5					0815											HOLD	
B41A-0.5					0837												
B40A-0.5				<u> </u>	0848											HOLL	>
B34-NEZ-0.5					0908											HOLD	>
6 B34-NEZ-2.5				1	0917											HOL	>
9 B34-NE-0.5				ł	0921					X							
0 B34-NE-2.5					0926					X							
1 B34-NW-0.5					0931											HOLD	
2 B34-NW2-0.5					0938	l										HOLL	>
B34-NW2-2.					0944											HOLD	
B34-SW-0.5		V		V	0950		,	1		X							
No. of Samples: 14	Method of Shipment:							Preservativ	/e: /	= ice	2 = H	Cl 3	= HNO	3 4	I = H ₂ SO ₄	5 = NaOH	6 = Other
Relinquished By: A:leen Chea/Ol	Date: 5/6/	23	Recei	ved By:					Date:			San	ıple M	atrix:		DW - Drink	ing \Mater
A.leen Cheay Ch	lu Time: 1150	9						Т	ime:				W C*	a		DW - DIIIK	ng water
Company: Ninyo & Moo!	e		Comp	any:								١	vv - Gr	oundw	ater	AQ - Aquec	us
Relinquished By:	Date:		Recei	ved By:				С	ate:] w	/W - W	'astewa	ater	SS - Soil / Se	olid
Company:	Time:		Comp	anv:				Т	ime:			S	N - Sto	rmwat	er	OT - Other	
Relinquished By:	Date:		Recei	ved For (OCA By:				ate: 5	161	2.3	San	nple In	tegrity		4.0+0. I	34.5 2
	Time:		1						ime: //			1			a	I	143
Company:			Comp	any: O	CASCA					•		Inta	ict: _		On Ice:	Yes No @	

		Analysis Re	quest & (ı of	Custody R	lecoi	^d							
ORANGE COAST ANALY	TICAL, INC.		www.	ocalab.c	com	Lab	Job No	: 2	.78	χ_{2}	<u> </u>	Page:	2	of 2.
3002 Dow Avenue, Suite		4620 East Elw	ood Street, Sui				AN.	ALYSIS R	EQUEST	/ PRES	ERVATI	ON		
Tustin, CA 92780		Phoenix, AZ 8					I							
Phone: (714) 832-0064 Fax: (714) 832-0067	· ·	5-0960 Fax: (480)	736-0970		Ø	~0						201220200000000000000000000000000000000	QUESTED ROUND-TIME
CUSTOMER INFORMATION		PRC	JECT INFORMA	ATION		EPA GOINE	80109						Standard:	The London Marie of the San San San San San San San San San San
Company: Ninyo & Moore	Project N	ame: LAU	SD 49th Street	PEA		72	Č							
Send Report To: Dennis Fee	Project N	umber: 211	936010				&						72 Hour	· ×
Email: <u>dfee@ninyoandmoore.com</u>	PO #:						6							
Address: 475 Goddard	Address (City / State):	Los Angeles, C	CA .	***	3	5						48 Hour	*
Irvine, CA 92618	EDD Requ	ired: Schlo	eedo			7/2	٩							
Phone: (949) 753-7070 Fax:	Sampled	By: Aile	1 Chea		ma	Arsen	8						24 Hour	:
Customer Sample IDs	No. of Containers	Sample Date	Sample Time	Sample Matrix	Container Type	A	3						REMARKS	/ INSTRUCTIONS
B34-SW-2.5	1	5/6/23	0954	SS	902 jav		X	İ	İ		İ			
B34-SW2-0.5		1	1010		Ĭ								HOLI	5
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3]	<u></u>						,			
No. of Samples: 3 Method of Relinquished By:		Daneline I Do			Preservative:	-(1	= ice	2 = HC	3 =	HNO ₃	4 =	H ₂ SO ₄	5 = NaOH	6 = Other
1 A-1 A () ()	Date: 6/6/23 Time: 11 50	Received By:			Date				Samp	le Mat	rix:		DW - Drinki	ing Water
Company: Ninyo & Moore	ine. 11 30	Company:			Tim	e:			GW	' - Groι	ındwate	er	AQ - Aqueo	us
Polinguished Pur	Pate:	Received By:	-		Date	e:			wv	V - Was	stewate			
T	ime:				Tim								SS - Soil / So	olid
Company:		Company:							SW	- Storn	nwater		OT - Other	
Relinquished By:	Pate:	Received For C	OCA By:		Date	e: 5	-6-	23	Samp	le Inte	grity:		4.	to24.
Τ	ime:	mak 2	1)				150				•	_	``	1124.0°C
Company:		Company: & C	A, CA						Intac	t:		On Ice (Y	es)/No @	

Sample Receipt Report

Laboratory Reference	cenam 27893	3		Logged in by	MM
Received:	05/06/23 1		Company Name:	Ninyo & Moore	
Method of Shipment:	Hand Delive	ered	Project Manager:	Mr. Dennis Fee	
Shipping Container:	Cooler	····	Project Name:	LAUSD 49th Stree	t PEA
# Shipping Containers:		1	Project #:	211936010	
Sample Quantity 17 Soil					
Chain of Custody		C	Complete 🗹	Incomplete	None 🗌
Samples On Ice		`	Yes, Wet 🗹	Yes, Blue	No 🗌
Observed Temp. (°C)	: 4	Thermometer	ID: IR#3	Adjusted Temp.:	4+(-0)=4
Shipping Intact			Yes	N/A 🔽	No 🗌
Shipping Custody Se	als Intact		Yes 🗌	N/A 🔽	No 🗌
Samples Intact			Yes 🗸		No 🗌
Sample Custody Sea	ls Intact		Yes 🗌	N/A 🗹	No 🗌
Custody Seals Signe	d & Dated		Yes 🗌	N/A 🗸	No 🗌
Proper Test Containe	ers		Yes 🗸		No 🗌
Proper Test Preserva	itions		Yes 🗸		No 🗌
Samples Within Hold	Times		Yes 🗸		No 🗌
VOAs Have Zero Hea	adspace		Yes 🗌	N/A 🔽	No 🗌
Sample Labels		C	Complete 🗸	Incomplete	None
Sample Information I	Matches COC		Yes 🗸	N/A 🗌	No 🗌
Notes					
		•			

APPENDIX G 95 Percent UCL Calculations

	Α	В	С	D	E	F	G	Н	I	J	K	L
1					UCL Statis	tics for Data	Sets with N	on-Detects				
2		0.1										
3	D		cted Options	D 1101 E 0 E	11010000	40.00 414						
4	Dai	te/Time of Co	•	ProUCL 5.2 5 WorkSheet.xl		48:30 AIVI						
5		F.J	Il Precision	OFF	S							
6		Confidence		95%								
7												
8	Number 0	of Bootstrap (Operations	2000								
9												
10	Lead											
11	Leau											
12						General	Statistics					
13			Total	Number of Ob	servations	80			Numbe	r of Distinct C	bservations	64
14										of Missing C		0
15					Minimum	1.4					Mean	26.91
16					Maximum	360					Median	7
17					SD	53.17				Std. E	rror of Mean	5.944
18				Coefficient of		1.976					Skewness	4.406
19												
20						Normal C	OF Test					
21			S	hapiro Wilk Te	st Statistic	0.486			Shapiro Wi	lk GOF Test		
22				1% Shapiro W		0		Data No		1% Significar		
23				Lilliefors Te		0.316				GOF Test		
24 25			1'	% Lilliefors Cr	tical Value	0.115		Data No	ot Normal at	1% Significar	nce Level	
26					Data Not	Normal at 1	% Significar	nce Level				
27												
28					As	suming Norr	mal Distribut	ion				
29			95% No	rmal UCL				95%	UCLs (Adju	sted for Ske	wness)	
30				95% Stude	ent's-t UCL	36.8			95% Adjuste	ed-CLT UCL ((Chen-1995)	39.81
31									95% Modifi	ed-t UCL (Jol	nnson-1978)	37.29
32											<u> </u>	
33						Gamma (GOF Test					
34					st Statistic	4.299			_	Gamma GO		
35				5% A-D Cr	tical Value	0.799	Da	ata Not Gan	nma Distribut	ed at 5% Sig	nificance Lev	el
36					st Statistic	0.196				ov Gamma G		
37				5% K-S Cr		0.104				ed at 5% Sig	nificance Lev	el
38				Data	a Not Gamr	na Distribute	ed at 5% Sig	nificance Le	evel			
39												
40						Gamma	Statistics				T	
41					hat (MLE)	0.69				star (bias cor	•	0.672
42					hat (MLE)	39.01			Theta	star (bias cor	*	40.03
43			•		hat (MLE)						s corrected)	107.6
44			ML	E Mean (bias	corrected)	26.91				MLE Sd (bia	*	32.82
45			A !!		: aa.i.£:	0.047				Chi Square	* *	84.62
46			Adjus	ted Level of S	ignificance	0.047			A	djusted Chi S	quare value	84.24
47					A = -	numina O===	ma Distrib	ion				
48			OE0/ *	nnravimate O		_	ma Distribut	ion	05	0/ ۸ ما:م	Commercial Co	24.25
49			95% A	pproximate Ga	arnma UCL	34.2			95	% Adjusted C	aamma UCL	34.35
50												

	А	В	С	I D	l E	F	G	Н	<u> </u>	J	Тк		
51					<u> </u>	Lognorma	GOF Test		· ·				
52			S	hapiro Wilk	Test Statistic	0.935		Shap	iro Wilk L	.ognormal G	OF Test		
53			1	0% Shapiro	Wilk P Value	6.6604E-4		Data Not L	.ognormal	at 10% Sign	ificance Leve	i	
54				Lilliefors	Test Statistic	0.158		Lill	iefors Log	gnormal GOI	F Test		
55			10	% Lilliefors (Critical Value	0.0907		Data Not L	.ognormal	at 10% Sign	ificance Leve	i	
56					Data Not L	ognormal at	10% Signific	cance Level					
57													
58						Lognorma	l Statistics						
59				Minimum of	Logged Data	0.336				Mean	of logged Da	:a 2.4	.414
60			١	Maximum of	Logged Data	5.886				SD	of logged Da	:a 1.:	.216
61													
62					Ass	uming Logno	rmal Distrib	ution					
63					95% H-UCL	32.91			90	% Chebyshe	v (MVUE) UC	L 34	.96
64				,	MVUE) UCL	40.35			97.5	% Chebyshe	v (MVUE) UC	L 47	7.84
65			99%	Chebyshev (MVUE) UCL	62.55							
66													
67					Nonparame	etric Distribu	tion Free UC	L Statistics					
68					Data do n	ot follow a D	iscernible D	istribution					
69													
70						rametric Dis	tribution Fre	e UCLs					
71				95	5% CLT UCL	36.68				95% BCA	Bootstrap UC	L 41	.47
72			95%	Standard Bo	ootstrap UCL	36.82					ootstrap-t UC		1.24
73			g	95% Hall's Bo	ootstrap UCL	44.5			959	% Percentile	Bootstrap UC	L 37	7.74
74			90% Ch	nebyshev(Me	an, Sd) UCL	44.74			95%	Chebyshev(I	Mean, Sd) UC	L 52	2.82
75			97.5% Ch	nebyshev(Me	an, Sd) UCL	64.03			99%	Chebyshev(I	Mean, Sd) UC	L 86	6.05
76													
77						Suggested	UCL to Use						
78				95% Stu	dent's-t UCL	36.8							
79													
80		The ca	alculated UC		d on assump					and unbiase	d manner.		
81					e verify the								
82				If the data w	ere collecte	d using judgr	nental or oth	er non-rand	om metho	ods,			
83				th	en contact a	statistician t	o correctly c	alculate UC	Ls.				
84													
85	N	lote: Sugge	stions regard	ling the selec	ction of a 95%	6 UCL are pr	ovided to hel	p the user to	select the	e most appro	priate 95% U	CL.	_
86		Recom	nmendations	are based up	oon data size	, data distrib	ution, and sk	ewness usin	g results f	rom simulation	on studies.		
87	Hov	vever, simu	lations result	ts will not cov	er all Real V	orld data se	ts; for additio	nal insight th	ne user ma	ay want to co	nsult a statist	ician.	

	Α	В	С	D	E	F	G	Н	I	J	K	L
1					UCL Statis	Stics for Unc	ensored Full	Data Sets				
2		0.1										
3	Det	te/Time of Co	cted Options	ProUCL 5.2	F/17/2022 2	.10.07 DM						
4	Dai	te/Time of Co	•	WorkSheet.		19:27 PW						
5		Ful	Il Precision	OFF	XIS							
6		Confidence										
7				95%								
8	Number C	of Bootstrap (Operations	2000								
9												
10	PCB											
\vdash	РОВ											
12						General	Statistics					
13			Total	Number of O	hservations	33			Numbe	r of Distinct (Observations	5
14			Total	Trainber or o	- DSCI VALIONS	00					Observations	0
15					Minimum	12.5			Numbe	- Of Wildshing V	Mean	32.2
16					Maximum	250					Median	12.5
17					SD	48.82				Std F	Error of Mean	8.498
18				Coefficient	of Variation	1.516				0.0. 2	Skewness	3.256
19											0.101111000	
20						Normal (GOF Test					
21			S	hapiro Wilk T	est Statistic		1001		Shapiro W	ilk GOF Test	t	
22				napiro Wilk C		0.906		Data No	-	1% Significa		
23				-	est Statistic					GOF Test		
24			1'	% Lilliefors C				Data No		1% Significa	nce Level	
25 26							 % Significar					
27												
28					As	suming Nori	mal Distribut	ion				
29			95% No	rmal UCL				95%	UCLs (Adju	sted for Ske	ewness)	
30				95% Stud	dent's-t UCL	46.59			95% Adjuste	ed-CLT UCL	(Chen-1995)	51.32
31									95% Modifi	ed-t UCL (Jo	hnson-1978)	47.39
32							<u> </u>				I	
33						Gamma	GOF Test					
34				A-D T	est Statistic	7.643		Ande	rson-Darling	Gamma GC	OF Test	
35				5% A-D C	ritical Value	0.774	Da	ata Not Gan	nma Distribut	ted at 5% Sig	gnificance Lev	el
36				K-S T	est Statistic	0.483		Kolmog	jorov-Smirno	ov Gamma G	GOF Test	
37				5% K-S C	ritical Value	0.157	Da	ata Not Gan	nma Distribut	ted at 5% Sig	gnificance Lev	el
38				Da	ta Not Gami	ma Distribute	ed at 5% Sig	nificance Le	evel			
39												
40							Statistics					
41					k hat (MLE)	1.083					rrected MLE)	1.005
42					a hat (MLE)	29.72			Theta		rrected MLE)	32.04
43					u hat (MLE)					·	as corrected)	66.33
44			ML	E Mean (bia	s corrected)	32.2				· ·	as corrected)	32.12
45											Value (0.05)	48.59
46			Adjus	ted Level of	Significance	0.0419			A	djusted Chi S	Square Value	47.8
47												
48							ma Distribut	tion				
49			95% A	pproximate G	amma UCL	43.95			95	% Adjusted	Gamma UCL	44.67
50												

	Α	В	ГС	D	l E	F	G	Н	l i		J	Ικ	ı
51	,,		<u> </u>		_		GOF Test				Ū		
52			S	Test Statistic	0.542	Shapiro Wilk Lognormal GOF Test							
53	10% Shapiro Wilk Critical Value					0.942		Data Not L	ognorm	al at	10% Signific	cance Level	
54	Lilliefors Test Statistic					0.475		Lil	liefors L	.ognc	rmal GOF T	est	
55			10	% Lilliefors (Critical Value	0.139		Data Not L	ognorm	al at	10% Signific	cance Level	
56					Data Not L	ognormal at	10% Signific	cance Level					
57													
58						-	l Statistics						
59				Minimum of	Logged Data	2.526					Mean of	logged Data	2.944
60			N	Maximum of	Logged Data	5.521					SD of	logged Data	0.859
61													
62						uming Logno	rmal Distrib	ution					
63	95% H-UCL			38.83					, ,	MVUE) UCL	40.67		
64	95% Chebyshev (MVUE) UCL			46.84			97	.5% (Chebyshev (MVUE) UCL	55.4		
65	99% Chebyshev (MVUE) UCL				72.2								
66													
67					•		tion Free UC						
68					Data do n	ot follow a D	iscernible D	istribution					
69													
70							tribution Free	e UCLs					
71					5% CLT UCL	46.17						otstrap UCL	51.14
72					ootstrap UCL	46.06						tstrap-t UCL	57.39
73					ootstrap UCL	56.97					Percentile Bo		47.35
74				• •	an, Sd) UCL	57.69					69.24		
75			97.5% Ch	ebyshev(Me	an, Sd) UCL	85.27			999	% Ch	ebyshev(Me	an, Sd) UCL	116.8
76													
77							UCL to Use						1
78				95% Stu	dent's-t UCL	46.59							
79													
80		The ca	liculated UC		d on assump					m an	d unbiased r	manner.	
81					e verify the								
82					ere collected					hods	,		
83				th	en contact a	statistician t	o correctly c	alculate UC	Ls.				
84													
85	N				ction of a 95%								
86				<u> </u>	oon data size								
87	Hov	wever, simu	lations result	s will not cov	er all Real W	orld data se	ts; for additio	nal insight th	ne user r	may v	want to cons	ult a statistic	ian.
88													

APPENDIX H Vapor Intrusion Risk Calculation Tables

Table G1 Exposure Parameters for Onsite Receptors 49th Street Elementary School Los Angeles, California

		School Exposure Parameters		
Exposure/Site Specific Parameters	Units	School Staff	Student	Source
Chemical Concentration in Air (CA)				chemical-specific
Exposure Frequency (EF)	days/year	250	180	Cal-EPA, 2003
Exposure Duration (ED)	years	25	6	Cal-EPA, 2003
Exposure Time (ET)	hr/day	8	8	Cal-EPA, 2003
Averaging Time for Noncarcinogens (AT _n)	hours	219,000	52,560	USEPA 2009
Averaging Time for Carcinogens (AT _c)	hours	613,200	613,200	USEPA 2009

Table G2 Indoor Air Exposure Point Concentrations Estimated Using a Default Attenuation Factor of 0.001 49th Street Elementary School Los Angeles, California

Chemical of Potential Concern (COPC)	CAS Number	Maximum Detected Soil Gas Concentration (μg/m³)	Estimated Indoor Chemical Air Concentration (ug/m³)
1,2,4-Trimethylbenzene	95636	22	2.20E-02
Ethylbenzene	100414	32	3.20E-02
Freons	75694	82	8.20E-02
Tetrachloroethene	127184	91	9.10E-02
Toluene	108883	92	9.20E-02
Xylenes, total	95476	181	1.81E-01

Notes:

Attenuation factor (unitless) = 0.001

μg/L = micrograms per liter

NA = Not applicable or not available

Table G3 Indoor Air Exposure Point Concentrations Estimated Using a Default Attenuation Factor of 0.03 49th Street Elementary School Los Angeles, California

Chemical of Potential Concern (COPC)	CAS Number	Maximum Detected Soil Gas Concentration (μg/m³)	Estimated Indoor Chemical Air Concentration (ug/m³)
1,2,4-Trimethylbenzene	95636	22	6.60E-01
Ethylbenzene	100414	32	9.60E-01
Freons	75694	82	2.46E+00
Tetrachloroethene	127184	91	2.73E+00
Toluene	108883	92	2.76E+00
Xylenes, total	95476	181	5.43E+00

Notes:

Attenuation factor (unitless) = 0.03

μg/L = micrograms per liter

NA = Not applicable or not available

Table G4
Toxicity Criteria of Chemicals of Potential Concern
49th Street Elementary School
Los Angeles, California

Chemical	Chronic Inhalation Reference Concentration (RfC)	Inhalation Unit Risk
	(ug/m³)	(ug/m³) ⁻¹
VOCs		
1,2,4-Trimethylbenzene	6.0E+01	NA
Ethylbenzene	1.0E+03	2.5E-06
Freons	1.2E+03	NA
Tetrachloroethene	4.0E+01	6.1E-06
Toluene	3.0E+02	NA
Xylenes, total	1.0E+02	NA

Source = Cal/EPA HHRA Note No. 10, 2019

Table G5
Health Hazards from Inhalation of Indoor Air for Student Exposure Scenario
Estimated Using a Default Attenuation Factor of 0.001
49th Street Elementary School
Los Angeles, California

	Indoor	Inhalation	Student Exposure Scenario		
COPC	Air	Reference	Average Exposure Conc_nc	Hazard Quotient	
00.0	Conc.	Concentration	(ug/m ³)	(Unitless)	
	(ug/m³)	(ug/m³)	Student	Student	
VOCs					
1,2,4-Trimethylbenzene	2.2E-02	6.0E+01	3.6E-03	6.E-05	
Ethylbenzene	3.2E-02	1.0E+03	5.3E-03	5.E-06	
Freons	8.2E-02	1.2E+03	1.3E-02	1.E-05	
Tetrachloroethene	9.1E-02	4.0E+01	1.5E-02	4.E-04	
Toluene	9.2E-02	3.0E+02	1.5E-02	5.E-05	
Xylenes, total	1.8E-01	1.0E+02	3.0E-02	3.E-04	
Total Hazard Index 8.E-04					

Table G6
Health Hazards from Inhalation of Indoor Air for Student Exposure Scenario
Estimated Using a Default Attenuation Factor of 0.03
49th Street Elementary School
Los Angeles, California

	Indoor Inhalation		Student Exposure Scenario		
COPC	Air	Reference	Average Exposure Conc_nc	Hazard Quotient	
33. 3	Conc.	Concentration	(ug/m ³)	(Unitless)	
	(ug/m³)	(ug/m³)	Student	Student	
VOCs					
1,2,4-Trimethylbenzene	6.6E-01	6.0E+01	1.1E-01	2.E-03	
Ethylbenzene	9.6E-01	1.0E+03	1.6E-01	2.E-04	
Freons	2.5E+00	1.2E+03	4.0E-01	3.E-04	
Tetrachloroethene	2.7E+00	4.0E+01	4.5E-01	1.E-02	
Toluene	2.8E+00	3.0E+02	4.5E-01	2.E-03	
Xylenes, total	5.4E+00	1.0E+02	8.9E-01	9.E-03	
Total Hazard Index 2.E-02					

ug/m³ = Micrograms per cubic meter

Table G7
Health Hazards from Inhalation of Indoor Air for School Staff Exposure Scenario
Estimated Using a Default Attenuation Factor of 0.001
49th Street Elementary School
Los Angeles, California

	Indoor	Inhalation	School Staff Exposure Scenario		
COPC	Air	Reference	Average	Hazard	
COPC	Concentration	Concentration	Exposure Conc_nc	Quotient	
	(ug/m³)	(ug/m³)	(ug/m³)	(Unitless)	
VOCs					
1,2,4-Trimethylbenzene	2.2E-02	6.0E+01	5.0E-03	8.E-05	
Ethylbenzene	3.2E-02	1.0E+03	7.3E-03	7.E-06	
Freons	8.2E-02	1.2E+03	1.9E-02	2.E-05	
Tetrachloroethene	9.1E-02	4.0E+01	2.1E-02	5.E-04	
Toluene	9.2E-02	3.0E+02	2.1E-02	7.E-05	
Xylenes, total	1.8E-01	1.0E+02	4.1E-02	4.E-04	
Total Hazard Index	1			1.E-03	

Table G8
Health Hazards from Inhalation of Indoor Air for School Staff Exposure Scenario
Estimated Using a Default Attenuation Factor of 0.03
49th Street Elementary School
Los Angeles, California

	Indoor	Inhalation	School Staff Exposure Scenario		
COPC	Air	Reference	Average	Hazard	
COPC	Concentration	Concentration	Exposure Conc_nc	Quotient	
	(ug/m³)	(ug/m³)	(ug/m³)	(Unitless)	
VOCs					
1,2,4-Trimethylbenzene	6.6E-01	6.0E+01	1.5E-01	3.E-03	
Ethylbenzene	9.6E-01	1.0E+03	2.2E-01	2.E-04	
Freons	2.5E+00	1.2E+03	5.6E-01	5.E-04	
Tetrachloroethene	2.7E+00	4.0E+01	6.2E-01	2.E-02	
Toluene	2.8E+00	3.0E+02	6.3E-01	2.E-03	
Xylenes, total	5.4E+00	1.0E+02	1.2E+00	1.E-02	
Total Hazard Index				3.E-02	

Table G9
Cancer Risks from Inhalation of Indoor Air for Student Exposure Scenario
Estimated Using a Default Attenuation Factor of 0.001
49th Street Elementary School
Los Angeles, California

	Indoor Air	Inhalation	Student Exposure Scenario				
COPC	Chemical	Unit	Lifetime Exposure Conc_c	Cancer Risk			
33. 3	Conc.	Risk	(ug/m³)	(Unitless)			
	(ug/m³)	(ug/m ³) ⁻¹	Student	Student			
VOCs							
1,2,4-Trimethylbenzene	2.2E-02	NA	3.1E-04	NA			
Ethylbenzene	3.2E-02	2.5E-06	4.5E-04	1.E-09			
Freons	8.2E-02	NA	1.2E-03	NA			
Tetrachloroethene	9.1E-02	6.1E-06	1.3E-03	8.E-09			
Toluene	9.2E-02	NA	1.3E-03	NA			
Xylenes, total	1.8E-01	NA	2.6E-03	NA			
Total Cancer Risk 9.E-09							
Notes:							

Table G10 Cancer Risks from Inhalation of Indoor Air for Student Exposure Scenario Estimated Using a Default Attenuation Factor of 0.03 49th Street Elementary School Los Angeles, California

	Indoor Air	Inhalation	Student Exposure Scenario		
CORC	Chemical	Unit	Lifetime Exposure Conc_c	Cancer Risk	
COPC	Conc.	Risk	(ug/m³)	(Unitless)	
	(ug/m³)	(ug/m ³) ⁻¹	Student	Student	
VOCs					
1,2,4-Trimethylbenzene	6.6E-01	NA	9.3E-03	NA	
Ethylbenzene	9.6E-01	2.5E-06	1.4E-02	3.E-08	
Freons	2.5E+00	NA	3.5E-02	NA	
Tetrachloroethene	2.7E+00	6.1E-06	3.8E-02	2.E-07	
Toluene	2.8E+00	NA	3.9E-02	NA	
Xylenes, total	5.4E+00	NA	7.7E-02	NA	
Total Cancer Risk 3.E-07					

Notes:

Table G11 Cancer Risks from Inhalation of Indoor Air for School Staff Exposure Scenario Estimated Using a Default Attenuation Factor of 0.001 49th Street Elementary School Los Angeles, California

	Indoor Air	Inhalation	School Staff Exposure Scenario		
	Chemical	Unit	Lifetime	Cancer	
COPC	Concentration	Risk	Exposure Conc_c	Risk	
	(ug/m³)	(ug/m ³) ⁻¹	(ug/m³)	(Unitless)	
VOCs					
1,2,4-Trimethylbenzene	2.2E-02	NA	1.8E-03	NA	
Ethylbenzene	3.2E-02	2.5E-06	2.6E-03	7.E-09	
Freons	8.2E-02	NA	6.7E-03	NA	
Tetrachloroethene	9.1E-02	6.1E-06	7.4E-03	5.E-08	
Toluene	9.2E-02	NA	7.5E-03	NA	
Xylenes, total	1.8E-01	NA	1.5E-02	NA	
Total Cancer Risk			1	5.E-08	

Notes:

Table G12 Cancer Risks from Inhalation of Indoor Air for School Staff Exposure Scenario Estimated Using a Default Attenuation Factor of 0.03

49th Street Elementary School Los Angeles, California

COPC	Indoor Air	Inhalation	School Staff Exposure Scenario	
	Chemical	Unit	Lifetime	Cancer
	Concentration	Risk	Exposure Conc_c	Risk
	(ug/m³)	(ug/m ³) ⁻¹	(ug/m³)	(Unitless)
VOCs				
1,2,4-Trimethylbenzene	6.6E-01	NA	5.4E-02	NA
Ethylbenzene	9.6E-01	2.5E-06	7.8E-02	2.E-07
Freons	2.5E+00	NA	2.0E-01	NA
Tetrachloroethene	2.7E+00	6.1E-06	2.2E-01	1.E-06
Toluene	2.8E+00	NA	2.3E-01	NA
Xylenes, total	5.4E+00	NA	4.4E-01	NA
Total Cancer Risk				2.E-06

Notes:

ug/m³ = Micrograms per cubic meter



475 Goddard, Suite 200 | Irvine, California 92618 | p. 949.753.7070

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