CONVERSE CONSULTANTS

Preliminary Environmental Assessment Equivalent Report

McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, California

Converse Project No. 18-41-233-01
April 17, 2019

Prepared For:

Los Angeles Unified School District
Office of Environmental Health & Safety
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April 17, 2019

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Office of Environmental Health and Safety
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Los Angeles, California 90017

Attention: Mr. Eric Longenecker – Project Manager

Subject: **Preliminary Environmental Assessment Equivalent Report**
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, California 90001
Converse Project No. 18-41-233-01

Mr. Longenecker:

CONVERSE CONSULTANTS (CONVERSE) is pleased to submit the attached report that summarizes the activities and the results of a Preliminary Environmental Assessment Equivalent that was conducted at the referenced property.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact John Ziegler at (626) 930-1234 or Michael Van Fleet at (626) 930-1267.

CONVERSE CONSULTANTS

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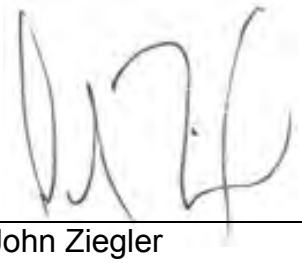
Property: McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, California
Converse Project No. 18-41-233-01

This Preliminary Environmental Assessment Equivalent (PEA-e) Report has been prepared by the staff of Converse Consultants (Converse) under the supervision of the Professional Geologist (PG) whose seal and signature appears below.



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LIST OF ACRONYMS

ACM: Asbestos Containing Material

APN: Assessor's Parcel Number

ASTM: American Society for Testing and Materials

B(a)P: Benzo (a) Pyrene

bgs: below ground surface

CEQA: California Environmental Quality Act

COPCs: Chemicals of Potential Concern

cPAHs: Carcinogenic Polynuclear Aromatic Hydrocarbons

DTSC: Department of Toxic Substances Control

ELAP: Environmental Laboratory Accreditation Program

EPA: United States Environmental Protection Agency

ESA: Environmental Site Assessment

HASP: Health and Safety Plan

HHSE: Human Health Screening Evaluation

LBP: Lead-Based Paint

LAUSD: Los Angeles Unified School District

µg/kg: micrograms per kilogram

mg/kg: milligrams per kilogram

mg/l: milligrams per liter

OCPs: Organochlorine Pesticides

PAH: Polynuclear Aromatic Hydrocarbons

PCBs: Polychlorinated Biphenyls

PEA-e: Preliminary Endangerment Assessment-Equivalent

PPE: Personal Protective Equipment

PLM: Polarized Light Microscopy

ppm: parts per million

QA/QC: Quality Assurance and Quality Control

REC: Recognized Environmental Condition

RPD: Relative Percent Difference

RSL: Regional Screening Level

SCAQMD: South Coast Air Quality Management District

STLC: Soluble Threshold Limit Concentration

TCLP: Toxicity Characteristic Leaching Procedure

TPH: Total Petroleum Hydrocarbons

TPHg: Total Petroleum Hydrocarbons modified for gasoline

TTLC: Total Threshold Limit Concentration

UCL: Upper Confidence Limit

USA: Underground Service Alert

USGS: United States Geologic Survey

UST: Underground Storage Tank

VOCs: Volatile Organic Chemicals

ZIMAS: Zone Information Map Access System

EXECUTIVE SUMMARY

The following is an Executive Summary of the Preliminary Environmental Assessment Equivalent (PEA-e) that was conducted by CONVERSE CONSULTANTS (CONVERSE). Please refer to the appropriate sections of the report for a complete discussion of these issues. In the event of a conflict between this Executive Summary and the report, or an omission in the Executive Summary, the report shall prevail.

This Preliminary Environmental Assessment Equivalent (PEA-e) Report presents the findings of the environmental investigation conducted at the McKinley Avenue Elementary School herein referred to as the Site.

The objectives of the PEA-e are to:

- Establish, through a field sampling and analysis program, the nature and extent of chemicals that may be present in soil and/or soil vapor as a result of onsite and offsite past practices and identifying Chemicals of Potential Concern (COPCs);
- Estimate the potential impacts to human health and/or the environment as a result of the COPCs detected at the Site using a residential land use scenario consistent with the Department of Toxic Substances Control's (DTSC's) PEA Guidance Manual.

A Phase I Environmental Site Assessment (ESA) dated July 2017 was prepared by Rincon Consultants, Inc. The Phase I ESA revealed evidence of the following potential Recognized Environmental Conditions (RECs) that could affect modernization of the school:

1. **Potential presence of organochlorine pesticides in onsite soils, especially around pre-1989 structures**. Based on the age of numerous existing and former school structures, as well as former residential structures located on the east side of the subject property, organochlorine pesticides, historically used as termiticides may be present in onsite soils.

2. **Potential presence of lead in soil adjacent to pre-1993 onsite structures**. Based on Rincon's review of historical sources, several buildings were constructed prior to 1993. Therefore, lead-based paint may have been used on the exterior of the buildings and may have impacted soil adjacent to the structures.

3. **Potential presence of arsenic-based herbicides beneath paved areas.** Since it was formerly a common practice for LAUSD to apply an arsenic-based

herbicide to soil immediately prior to paving with asphalt, arsenic may be present in the onsite soils located beneath the paved areas of the property.

4. **Potential presence of lead-based paint and asbestos in onsite structures**. Based on Rincon's review of historical sources, several existing buildings on the subject property were built prior to 1978. Although not considered a REC, pursuant to ASTM E 1527-13, school structures built prior to 1978 may contain lead based paint (LBP) and structures built prior to 1981 may contain asbestos containing materials (ACM). In addition, according to the DTSC, school structures built prior to 1993 may contain lead based paint (DTSC, 2006). Based on the age of several of the onsite structures, there is the potential that LBP and ACM were used during their construction.

5. **Potential Presence of Underground Storage Tank.** The Main Building (Administration and classrooms) has a boiler located in the basement. A historical drawing reviewed after the completion of the Phase I ESA indicates the location of the underground storage tank (UST) that formerly served this boiler. As the Fire Department has no record of UST removal for the Site this leaves two options: 1) the UST was removed prior to the Fire Department keeping records, or 2) the UST is still in place.

The purpose of South Coast Air Quality Management District Rule 1466. *Control of Particulate Emissions from Soils with Toxic Air Contaminants* (Rule 1466) is to reduce particulate emissions containing toxic air contaminants in the ambient air created as a result of earth-moving activities. Determining the applicability of this rule is completed through the collection and analyses of soil samples prior to the commencement of earth moving activities. The results of the testing to satisfy this rule are included in this document.

The scope of work for the PEA-e included the following:

- Field sampling and laboratory analysis in accordance with Sampling and Analysis Plan prepared by Converse.
- Field sampling and laboratory analysis to determine the applicability of Rule 1466.
- Assessment of the nature of hazardous wastes/substances that may be present in soil at the Site, their concentration and general extent.
- Investigation of the likely presence of absence of the UST that formerly served the boiler.
- Evaluation of the potential threat to public health and/or the environment posed by hazardous constituents detected at the Site using a residential land use scenario consistent with the PEA Guidance Manual.

- Preparation of this PEA-e Report.

The results of the geophysical survey around the boring location chosen to represent the UST location (UST 1) did not exhibit any signs of a UST still being present.

Converse observed standard Environmental Protection Agency (EPA) sample collection and handling protocol including chain-of-custody control.

Soil matrix samples were analyzed in general accordance with one or more of the following EPA test methods:

- Method 6020 – Arsenic
- Method 6010B – Lead
- Method 8081 – Organochlorine pesticides (OCPs)
- Method 8082 – Polychlorinated biphenyl (PCBs)
- Method 8310 – Polynuclear aromatic hydrocarbons (PAHs)
- Method 8015M – Total Petroleum Hydrocarbons (TPH) carbon chain analysis
- Method 8260 – Volatile Organic Compounds (VOCs)
- Asbestos by Polarized Light Microscopy (PLM)

The following is a summary of the findings for the soil matrix samples collected as part of this investigation.

- Arsenic was reported in all 90 soil samples analyzed at a maximum concentration of 77.6 milligrams per kilogram (mg/kg). Arsenic was reported in excess of the screening level of 12 mg/kg in 12 of the 90 samples analyzed, all from the 0.5-foot depth. A 95% upper confidence limit (95UCL) concentration of 11.66 mg/kg was calculated for the total dataset. This is less than the screening level of 12 mg/kg.
- Lead was reported in 47 of the 52 samples analyzed at a maximum concentration of 114 mg/kg. Lead was reported in one sample in excess of the screening level for lead of 80 mg/kg. The 95UCL concentration for the dataset was 32.58 mg/kg. This is less than the screening level of 80 mg/kg.
- Three (3) OCP compounds were reported, Chlordane, DDE and DDT. These compounds were reported at maximum concentrations of 5.65, 5.73, and 6.99 micrograms per kilogram (µg/kg), respectively. All of these reported OCP concentrations are less than the screening levels for a residential land use of 440, 2,000 and 1,900 µg/kg for chlordane, DDE and DDT, respectively.
- Three (3) PAHs, fluoranthene phenanthrene and pyrene, were reported in samples PG-1 and PP-3. The maximum reported concentrations of each PAH are less than the screening levels for a residential land use. Additionally, four (4) carcinogenic PAHs (cPAHs) were reported, which were evaluated based on their benzo(a)pyrene toxicity equivalent. The maximum calculated B(a)P equivalent of 0.09544 mg/kg is

less than the residential land use regional screening level (RSL) for benzo(a) pyrene of 0.11 mg/kg.

- No PCBs were reported in the samples analyzed for PCBs.
- No TPH or VOCs were reported in soil samples collected and analyzed from the location of the former UST.
- No asbestos was reported in the samples analyzed for asbestos.

Based on the results of the evaluation of the soil samples analyzed and the comparison to the screening levels, no further human health screening was conducted. In addition, the soil does not contain any toxic chemicals that would warrant restricting earth-moving activities in conformance to Rule 1466.

Based on the results of the sampling, no further investigation is necessary. The Site is suitable for the contemplated comprehensive modernization project without any soil remediation.

1.0 INTRODUCTION

This Preliminary Environmental Assessment Equivalent (PEA-e) Report presents the findings of the environmental investigation conducted at McKinley Avenue Elementary School, herein referred to as the Site.

For due diligence purposes, the Los Angeles Unified School District (LAUSD) had a *Phase I Environmental Site Assessment* (ESA) prepared for the Site by Rincon Consultants, Inc. (Rincon), dated July 28, 2017. The Phase I ESA recommended further investigation. The recommendations for further investigations were outlined in a *Sampling and Analysis Plan* prepared by Converse. A summary of the sampling plan is presented in **Appendix A**.

The purpose of South Coast Air Quality Management District Rule 1466. *Control of Particulate Emissions from Soils with Toxic Air Contaminants* (Rule 1466) is to reduce particulate emissions containing toxic air contaminants in the ambient air created as a result of earth-moving activities. Paragraph (C)(15) of Rule 1466 identifies the contaminants of concerns for this rule. Determining the applicability of this rule is completed through the collection and analyses of soil samples prior to the commencement of earth-moving activities. The results of the testing to satisfy Rule 1466 are included in this document.

The Project is part of a comprehensive modernization effort being implemented by LAUSD. Based on our review of the project scope dated December 11, 2018, provided by the LAUSD, the Project includes the removal of the following on the McKinley Elementary property (Indicates Building number from Figure 3 of this document):

- The assembly/classroom building (2),
- The admin/classroom building (3),
- The kindergarten (4, 5).
- Six portable buildings (7, 9, 11, and 12
- One portable restroom building (N/A),
- Existing underground utilities (as required), and
- Asphalt paved playground and parking areas.

The Project includes the construction of the following:

New Buildings

- Classroom Buildings with 32 classrooms
- Administration / Library
- Multi-Purpose Room
- Maintenance & Operations Suite (excluding storage for M&O outdoor equipment)

Site

- Infrastructure upgrade
- New landscaping / paving
- New parking
- New Kindergarten playground, turf field, play structure
- New Elementary (Grades 1-6) playground, turf field, play structure
- New campus wide fire alarm system with voice evacuation
- IP convergence
- Barrier removal upgrades

The purpose of this PEA-e is to identify if any environmental issues will need to be mitigated either prior to or during the above construction effort.

1.1 PEA-e Objectives

The objectives of the PEA-e are to:

- Establish, through a field sampling and analysis program, the nature and extent of chemicals that may be present in soil and/or soil vapor as a result of onsite and offsite past practices and identifying Chemicals of Potential Concern (COPCs);
- Estimate the potential impacts to human health and/or the environment as a result of the COPCs detected at the Site using a residential land use scenario consistent with the Department of Toxic Substances Control's (DTSC's) PEA Guidance Manual.

1.2 Scope of Work

The scope of work for the PEA-e included the following:

- Field sampling and laboratory analysis in accordance with Sampling and Analysis Plan prepared by Converse.
- Field sampling and laboratory analysis to determine the applicability of Rule 1466.
- Assessment of the nature of hazardous wastes/substances that may be present in soil at the Site, their concentration and general extent.
- Investigation of the likely presence of absence of the UST that formerly served the boiler.

- Evaluation of the potential threat to public health and/or the environment posed by hazardous constituents detected at the Site using a residential land use scenario consistent with the PEA guidance Manual.
- Preparation of this PEA-e Report.

1.3 Organization of Report

This PEA-e Report is organized as follows:

Section 1.0 Presents an introduction and the rationale for performing the PEA-e, and the general scope of work.

Section 2.0 Site Description. Provides specific details about the Site and surrounding areas.

Section 3.0 Discusses the environmental setting;

Section 4.0 Discusses the Phase I ESA

Section 5.0 Describes the sampling activities and results;

Section 6.0 Presents the human health screening evaluation;

Section 7.0 Presents the conclusions and recommendations;

Section 8.0 Discusses the limitations of this PEA-e Report.

Section 9.0 Presents the References.

1.4 Public Participation

Public notices regarding the planned field activities were distributed at least seventy-two hours prior to the implementation of the PEA-e field activities. The public notices were prepared in accordance with the LAUSD guidelines and hand delivered to the tenants and residents within the line-of-sight of the school, faculty in-boxes, and on the counter in the administrative office. Additionally, the notice was posted adjacent to the sidewalk in the approximate middle of each of the four (4) sides of the school. The purpose of the notice was to inform the community of the environmental investigation that was going to occur at the Site. The notice was provided in both English and Spanish. Copies of the notices for sampling along with a photograph of one of the posted locations are provided in Appendix B.

The comprehensive modernization effort to be conducted at the Site is subject to the California Environmental Quality Act (CEQA). One of the first steps when evaluating a project under CEQA is the preparation of an Initial Study. One of the twenty-one items

reviewed as part of the Initial Study is Hazards and Hazardous Materials. For this reason, the draft version of this PEA-e is included as an appendix to the Initial Study. As the lead agency under CEQA, LAUSD has determined that the appropriate CEQA document for this project is a Mitigated Negative Declaration. A public comment period for CEQA (and therefore this PEA-e) ran from March 13, 2019 to April 11, 2019. A combined CEQA/PEA-e public meeting was held on March 28, 2019 at the Site. No comments relating to this document were made within the public comment period or at the meeting. Copies of the notices for CEQA (one English and one Spanish) and the agenda for the public meeting are provided in **Appendix B**.

2.0 SITE DESCRIPTION

2.1 Site Identification

The McKinley Avenue Elementary School is located at 7812 McKinley Avenue in the City of Los Angeles. The property is an approximately 4.22-acre parcel and is made up of one city block and is located west of Wadsworth Avenue, south of East 78th Street, and north of East 79th Street, on the east side of McKinley Avenue. The Site is currently owned by the LAUSD (Zimas, 2017). A Site location map is included as **Figure 1**.

The school property has the following assessor parcel number (APN), as designated by the Los Angeles County Office of the Assessor:

6023-030 902

2.2 Background/Prior Assessments/Investigations

Background information has been derived from the Rincon Consultants, Inc Phase I ESA report, dated July 28, 2017. See Section 4 below for a summary of the Phase I ESA findings. No other prior assessment or investigation reports were provided.

2.2.1 Description of Property Structure(s) and Other Features

The Site is currently operated by LAUSD as McKinley Avenue Elementary School.

The school consists of a 2-story main building including an auditorium and partial basement, a second two story building (Hubert Hall), cafeteria, and multiple portable structures. Access to the property is available on McKinley Avenue and a driveway on East 78th Street. A current Site plan is included as **Figure 2**.

The adjacent properties are primarily used for residential purposes, with some commercial properties.

2.2.2 Historical Land Uses

The subject property appeared to be undeveloped up until at least 1928. According to the 1928 aerial photograph, the western portion of the subject property appears to be occupied by school structures (along McKinley Avenue) with a central playground area behind the school buildings. The eastern portion of the subject property appears to be occupied by residential dwellings. According to the 1950 Sanborn Map, the western portion of the subject property is occupied by the main school building along McKinley Avenue, a kindergarten, an auditorium structure (indicated as built in 1929 and rebuilt in 1936), a lunch shed, and classrooms while the eastern portion of the subject property

consists of multiple parcels occupied by dwellings, some with detached auto garages. By 1963, the eastern portion of the subject property is no longer occupied by residential dwellings. According to the 1969 Sanborn Map, the 79th Street School (modern day McKinley Elementary) consists of the main school building along McKinley Avenue, the original kindergarten building, an additional kindergarten building (indicated as built in 1962), an auditorium structure (indicated as built in 1929 and rebuilt in 1936), a cafeteria building, several classroom buildings (indicated as built in 1959 and 1963), and a large playground. With the exception of a few added and removed small structures or sheds, the subject property generally remains unchanged from 1969 through 1994. By 2002, five additional classroom structures have been constructed on the eastern half of the subject property along East 78th Street. By 2012, the two easternmost structures have been removed from the subject property. In general, the subject property configuration does not change through from 2012 through present-day.

3.0 ENVIRONMENTAL SETTING

The following sections provide information regarding the potential exposure pathways.

3.1 Topography

The current United States Geological Survey topographic map (Inglewood Quadrangle, 2012) indicates that the subject property is situated at an elevation of approximately 140 feet above mean sea level. The subject property and adjacent properties are generally flat. The site is approximately 1.2-miles east of the 110 freeway and approximately ½ mile south of Florence Avenue.

3.2 Geology

According to the Geologic Map of the Venice and Inglewood Quadrangles, California (2007), the subject property is underlain by Quaternary-age alluvium described as "alluvial gravel, sand, and clay, derived mostly from Santa Monica Mountains; includes gravel and sand of minor stream channels."

The soil types encountered beneath the Site were generally sand, brown, very fine to fine grained with minor silts, well sorted and slightly moist in the upper three feet. A copy of the boring logs are presented in **Appendix C**.

3.3 Hydrogeology

According to the California Groundwater Bulletin 118, the subject property is located within the Coastal Plain of Los Angeles Groundwater Basin, Central Subbasin (4-11.01). According to Bulletin 118, "*This subbasin is commonly referred to as the "Central Basin" and is bounded on the north by a surface divide called the La Brea high, and on the northeast and east by emergent less permeable Tertiary rocks of the Elysian, Repetto, Merced and Puente Hills. The southeast boundary between Central Basin and Orange County Groundwater Basin roughly follows Coyote Creek, which is a regional drainage province boundary. The southwest boundary is formed by the Newport Inglewood fault system and the associated folded rocks of the Newport Inglewood uplift. The Los Angeles and San Gabriel Rivers drain inland basins and pass across the surface of the Central Basin on their way to the Pacific Ocean*."

During the preparation of the Phase I ESA by Rincon, Rincon reviewed the California State Water Resources Control Board's online GeoTracker database to determine groundwater flow direction in the vicinity of the subject property. According to a Case Closure Summary (June 2013) for the World Oil Marketing Co. Station No. 2 site at 1101 East Florence Avenue, located approximately 2,500-feet north-northeast of the

subject property, the depth to groundwater recorded was between 95 and 99 feet below ground surface (bgs). Flow direction was measured to vary towards the south, southeast and southwest.

Groundwater levels beneath the Site are subject to seasonal and long-term variations and fluctuations resulting from channel flows, groundwater spreading, recharge and pumping activities within the Central Groundwater Basin.

3.4 Surface Water Pathway

There are no surface waters bodies on the Site. The nearest surface water body is the Los Angeles River, located approximately 5.1-miles east of the Site. Therefore, it is unreasonable to suspect a release or threatened release of hazardous substances to surface waters has occurred from the Site.

4.0 PHASE I ESA

A Phase I ESA report dated July 28, 2017 was prepared by Rincon Consultants, Inc. The phase I ESA revealed evidence of the following potential Recognized Environmental Conditions (RECs) that could affect modernization of the school:

1. **Potential presence of organochlorine pesticides in onsite soils, especially around pre-1989 structures**. Based on the age of numerous existing and former school structures, as well as former residential structures located on the east side of the subject property, organochlorine pesticides, historically used as termiticides may be present in onsite soils.

2. **Potential presence of lead in soil adjacent to pre-1993 onsite structures**. Based on Rincon's review of historical sources, several buildings were constructed prior to 1993. Therefore, lead-based paint may have been used on the exterior of the buildings and may have impacted soil adjacent to the structures.

3. **Potential presence of arsenic-based herbicides beneath paved areas.** Since it was formerly a common practice for LAUSD to apply an arsenic-based herbicide to soil immediately prior to paving with asphalt, arsenic may be present in the onsite soils located beneath the paved areas of the property.

4. **Potential presence of lead-based paint and asbestos in onsite structures**. Based on Rincon's review of historical sources, several existing buildings on the subject property were built prior to 1978. Although not considered a REC, pursuant to ASTM E 1527-13, school structures built prior to 1978 may contain lead based paint (LBP) and structures built prior to 1981 may contain asbestos containing materials (ACM). In addition, according to the DTSC, school structures built prior to 1993 may contain LBP (DTSC, 2006). Based on the age of several of the onsite structures, there is the potential that LBP and ACM were used during their construction.

5. **Potential Presence of Underground Storage Tank.** The Main Building (Administration and classrooms) has a boiler located in the basement. A historical drawing reviewed after the completion of the Phase I ESA indicates the location of the underground storage tank (UST) that formerly served this boiler. As the Fire Department has no record of UST removal for the Site this leaves two options: 1) the UST was removed prior to the Fire Department keeping records, or 2) the UST is still in place.

5.0 SAMPLING ACTIVITIES AND RESULTS

5.1 Summary of Activities

5.1.1 Utility Clearance

Prior to commencement of field activities, Underground Service Alert (USA) was notified of our investigation on the Site. Proposed locations of subsurface tasks were marked with paint for clearance by USA. In addition, boring locations were also cleared prior to drilling by conducting a geophysical survey of the boring locations. Special attention was paid above the area where a UST was previously identified and no indications that the tank was present were observed. The boring clearance was conducted by Spectrum Geophysics on December 23 and 26, 2018.

5.1.2 Measures Taken to Prevent Direct Contact with Hazardous Substances in or on the Soil at the Site

Field activities were conducted in accordance with the guidelines outlined in the *Health and Safety Plan* (HASP), prepared by Converse and dated December 2018.

5.1.3 Soil Matrix Samples

On December 26, 27 and 28, 2018, soil samples were collected from 77 locations within the area of the proposed improvements. See **Figures 3 through 7** for the boring locations. One (1) boring, UST 1, was advanced to 15-feet bgs to evaluate the soil in the area of a former UST. Soil samples were collected from this boring at 5-foot intervals for analysis, lithologic evaluation and field screening. The remaining borings were advanced to 3 feet bgs with soil samples collected at depths of 0 to 0.5, 1 to 1.5 and 2.5 to 3.0 feet bgs. Fifteen (15) of the borings were advanced using a hand auger due to the proximity of subsurface utilities or locations that could not be accessed with the limited access rig, and the remainder were advanced using a direct-push (Geoprobe) drill rig operated by Interphase Environmental. Soil samples were collected either in in 4-ounce glass jars or in acetate sleeves. Samples collected for analysis of volatile constituents were collected in accordance EPA Method 5035 using encore samplers.

Surface cover (asphalt or concrete) was cored and removed to expose the soil prior to drilling. Upon retrieval from the boring, the acetate sleeves containing the retrieved soil core were cut at the appropriate sample intervals and the sleeves were sealed with Teflon and capped with polyethylene caps, labeled, and placed on ice for transport to a California-certified laboratory. Converse observed standard EPA sample collection and handling protocol including chain-of-custody control.

All borings were filled with inert material to match the surrounding surface (i.e. clean sand for soil or a minimum of three [3] inches of compacted cold-patch asphalt if AC, or four [4] inches of concrete if concrete). Soil was generally sent to the laboratory for off-site actual or potential analyses and no drums of soil were created as part of this investigation.

5.1.4 Groundwater Sampling

Groundwater was not identified as a medium of concern based on the depth to groundwater and the lack of a direct exposure pathway, and was therefore not sampled during this investigation.

5.1.5 Background Sampling

Based on the analyses proposed, background sampling was not deemed necessary.

5.1.6 Soil Sample Analysis

All soil samples (except the samples to be analyzed for asbestos) were delivered under chain-of-custody documentation to American Environmental Testing Laboratories in Burbank, an analytical laboratory that participates in the California State Environmental Laboratory Accreditation Program, (ELAP), for potential analysis. EMSL Analytical, Inc. (dba LA Testing) in South Pasadena, also a participant in ELAP, analyzed select soil samples for asbestos. The proposed rationale for analysis of soil matrix samples is presented in **Appendix A.**

Soil matrix samples were analyzed in general accordance with one or more of the following EPA test methods:

- Method 6020 – Arsenic
- Method 6010B – Lead
- Method 8081 – Organochlorine pesticides (OCPs)
- Method 8082 – Polychlorinated biphenyl (PCBs)
- Method 8310 – Polynuclear aromatic hydrocarbons (PAHs)
- Method 8015M – Total Petroleum Hydrocarbons (TPH) carbon chain analysis
- Method 8260 – Volatile Organic Compounds (VOCs)
- Asbestos by Polarized Light Microscopy (PLM)

Soil samples not initially analyzed were archived by the laboratory.

5.1.6.1 Arsenic and Lead

Eighty-four soil samples (77 primary and 7 duplicates) collected from the 0.5 to 1.0-feet depth were initially analyzed for arsenic in accordance with EPA Method 6020. Upon receipt of the results an additional six (6) samples from the 2-foot and 3-foot depths were analyzed for arsenic.

Fifty-two soil samples (45 primary and 7 duplicates) collected from the 0.5 to 1-foot depth were analyzed for lead in accordance with EPA Method 6010. No further analysis for lead was required.

5.1.6.2 OCPs

Soil samples collected from 0.5 to 1.0-foot depth at 45 locations were analyzed for OCPs. Soil samples were composited into 13 composite samples by the laboratory and analyzed for OCPs in accordance with EPA Method 8081.

5.1.6.3 PCBs

Eight (8) soil samples collected from the 0.5 to 1.0–foot depth were analyzed for PCBs in accordance with EPA Method 8081.

5.1.6.4 PAHs

Six (6) soil samples collected from the 0.5 to 1.0–foot depth were analyzed for PAHs in accordance with EPA Method 8310.

5.1.6.5 TPH and VOCs

Soil samples collected from the 5, 10 and 15-foot depths at the location of the former UST were analyzed for TPH carbon chain analysis in accordance with EPA Method 8015m. The sample from the 10-foot depth was analyzed for VOCs in accordance with EPA Method 8260.

5.1.6.6 Asbestos

Fifteen (15) soil samples collected from the 0.5 to 1.0–foot depth were analyzed for asbestos using PLM.

5.2 Field Variances

Minor variances to the sampling and analysis plan consisted of the relocation of several boring locations due to the detection of subsurface features during the geophysical survey.

Three (3) locations, S10, PG22 and PG23, were not advanced due to the presence of utilities and limited access behind buildings 11 and 12.

Twelve (12) locations at Building S1 and S8 (see Figure 3 for locations) were deleted from the scope due to revisions in the modernization plan.

5.3 Summary and Discussion of Analytical Results

The following sections describe the results of the analytical testing performed at the fixed laboratory. Copies of the laboratory analytical reports are included in **Appendix D**.

5.3.1 Soil Matrix Sample Results

The rationale for soil matrix sample analysis is presented in **Appendix A**. The locations of the soil borings and its associated analytical results are presented on **Figures 3 through 6**. A summary of the analytical results of the soil matrix samples are presented in **Tables 1 through 6.**

5.3.1.1 Lead

Lead was reported in 47 of the 52 soil samples analyzed for lead. Lead was reported in one sample (DUP1 a duplicate of S12-2-0.5) in excess of the screening level for lead of 80 mg/kg. All other concentrations were reported at concentrations less than the screening level. Concentrations ranged from non-detect to 114 mg/kg.

Using the comprehensive statistical software package ProUCL (initially developed by EPA for computing statistical intervals to respond to concerns at specific Superfund sites) the 95 percent upper confidence limit (95UCL) for the lead samples was calculated to be 32.58 mg/kg. This is less than the screening level for lead of 80 mg/kg. Please see **Table 1** and **Figures 4 through 7** for a summary of analytical results for lead. A copy of the UCL calculations are provided in **Appendix E.**

5.3.1.2 Arsenic

Arsenic was reported in all 90 soil samples analyzed for arsenic (77 primary, 7 duplicates and 6 deeper samples). Arsenic was reported at a maximum concentration

of 77.6 mg/kg at location PG-1 at 0.5-feet. Arsenic was reported in excess of the screening level of 12 mg/kg in eight (8) of the 90-samples analyzed. Exceedances ranged from 13.3 mg/kg to 77.6 mg/kg.

At the locations where the maximum arsenic concentrations were reported (PG-1, PG-3, and PG-13, 77.6 to 52.8 mg/kg) the samples collected from the 2.0 and 3.0-foot depths were subsequently analyzed for arsenic. Concentrations reported from these locations were less than the screening level of 12 mg/kg (0.695 mg/kg to 8.34 mg/kg). Using the ProUCL software a 95% upper confidence limit (95UCL) was calculated, the 95UCL for the arsenic samples was calculated to be 11.6 mg/kg, and this is less than the southern California background level of 12 mg/kg. A copy of the UCL calculations are provided in **Appendix E.**

The highest arsenic total threshold limit concentration (TTLC) encountered during this investigation was greater than 10 times the allowable soluble threshold limit concentration (STLC) of 5.0 milligrams per liter (mg/L or parts per million [ppm]): 77.6 ppm versus 50 ppm. A STLC concentrations for arsenic above 5 mg/L defines a waste as hazardous in California. When this sample was analyzed a STLC concentration of 1.36 mg/L was reported for sample PG-1-0.5.

The Resource Conservation and Recovery Act states that waste with an arsenic concentration above 5.0 mg/L after the Toxicity Characteristic Leaching Procedure (TCLP) is considered hazardous by the EPA. As the highest TTLC for arsenic was less than 20 times the allowable concentration after the TCLP (77.6 ppm versus 100 ppm) a TCLP analyses was not requested or required.

Please see **Table 1** and **Figures 4 through 7** for a summary of the analytical results for arsenic.

5.3.1.3 OCPs

Three (3) OCPs, chlordane, DDE and DDT were reported in composite samples analyzed for OCPs (Comp 2.2-0.5, Comp 3.2-0.5 and Comp 7.2 -0.5) at a depth of 0.5 feet. Chlordane was reported in all three samples at concentrations ranging from an estimated concentration of 1.11 micrograms per kilogram (µg/kg) to an estimated concentration of 5.65 µg/kg. This is less than the screening level 440 µg/kg. DDE and DDT were reported in one sample (Comp7.2-0.5) at estimated concentrations of 5.73 µg/kg and 6.99 µg/kg respectively. This is less than the screening level of 2,000 µg/kg. and 1,900 µg/kg respectively. No OCPs were reported in any of the other samples analyzed. Please see **Table 2** and **Figure 3** for a summary of the analytical results for OCPs.

5.3.1.4 PCBs

PCBs were reported as non-detect in each of the samples analyzed. A summary of the results for PCBs is presented in **Table 3.**

5.3.1.5 PAHs

PAHs were reported in samples PG-1 and PP-3. Three (3) PAHs, fluoranthene phenanthrene and pyrene, were reported at concentrations less than their respective residential screening levels. The screening level for pyrene was used as surrogate for phenanthrene which does not have a published screening level.

Four (4) carcinogenic PAHs (cPAHs) were reported. Their maximum concentrations and residential screening levels are:

	Detections	Maximum Concentration	Screening Level
Benzo(a)pyrene	2	0.0835	0.11
Benzo(b)fluoranthene	1	0.0562	1.1
Benzo(k)fluoranthene	1	0.0357	11
chrysene	1	0.0344	110
B(a)P Equivalent		0.0954	0.11

Screening levels from November 2018 EPA regional screening levels (RSLs)

A benzo(a)pyrene toxicity equivalent (B(a)P Equivalent) was calculated for the cPAHs using a toxicity equivalent factor (TEF) approach. TEFs are based on shared characteristics that can be used to rank the class of chemicals by carcinogenic potency. The ranking is accomplished by referencing the chemical to the characteristics and potency of benzo (a) pyrene, which is often used as the reference chemical for expressing the carcinogenic potency of the other cPAHs.

The TEF for the 6 cPAHs are listed below:

cPAH	TEFs
Benzo(a)anthracene	0.1
Benzo(a)pyrene	1.0
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.1
Chrysene	0.01
Indeno(1,2,3-cd)pyrene	0.1

The total B(a)P equivalent for an individual soil sample is calculated by multiplying the reported concentration by its TEF. The adjusted concentrations are then added together for the total B(a)P concentration. For samples in which the reported concentration is non detect, ½ the method detection limit is used to calculate the B(a)P equivalent.

The B(a)P equivalent is then compared to the screening level for benzo(a) pyrene. The maximum calculated B(a)P equivalent of 0.09544 mg/kg is less than the RSL for residential land use of 0.11 mg/kg.

A summary of the PAH analyses is presented in **Table 4.**

5.3.1.6 UST Sampling

Soil samples collected from the area of the former UST were analyzed for TPH and VOCs. Concentrations of TPH and VOCs were reported as non-detect in the samples analyzed. A summary of the results for UST Sampling is presented in **Table 5.**

5.3.1.7 Asbestos

All soil samples analyzed for asbestos reported non-detect. A summary of the asbestos sampling is presented in **Table 6.**

5.4 Quality Assurance and Quality Control

During this PEA-e investigation, a variety of data was collected. Each sample collected was analyzed for a number of different constituents, depending on the rationale for sample collection. However, not all chemicals detected can be attributable to an on-site release and not all of the data is of equal quality. Data collected has been evaluated to determine which of the chemicals identified are likely to be Site-related and to assess whether the reported concentrations for these chemicals are of acceptable quality for use in the screening evaluation. Following is a discussion of the evaluations conducted.

5.4.1 Evaluation of Analytical Methods

Analyses selected for each sample have been deemed appropriate based on the rationale and ability of the method to provide data for use in the screening evaluation.

Soil samples were collected under the supervision of a California-registered Professional Geologist. Sample locations were verified prior to collection. All sampling and drilling equipment was decontaminated between uses to avoid cross contamination between probes/borings and samples. Once soil samples were collected, they were labeled, logged, and placed on ice for transport to the analytical laboratory.

Laboratory quality control procedures included the preparation of matrix spikes and matrix spike duplicates, laboratory control spikes and laboratory control spike duplicates. Recovery for all matrix and laboratory spikes was within acceptable parameters. A statement, certifying that all analytical work was in accordance with the published QA/QC procedures and signed by the laboratory QA/QC manager, is included as part of the analytical results.

5.4.2 Evaluation of Detection Limits

Detection limits associated with the analytical data were reviewed before eliminating chemicals because they were not detected. Laboratory method detection limits are included on the summary tables. All detection limits were less than the screening levels for the constituents of concern.

5.4.3 Evaluation of Qualified Data

For analytical results, various qualifiers pertaining to the quality of the data are attached to certain data by either the laboratories conducting the analysis or by persons conducting the data evaluation. No qualifications of concern were noted.

5.4.4 Data Quality Objectives

This project has incorporated, certain specified protocols to document the quality of the data collected during this investigation. Soil samples were collected in compliance with U.S. EPA SW-846. The laboratory detection limits are indicated in the summary Tables for the analytical methods utilized. The objectives of precision, accuracy, completeness, representativeness and comparability typically define the data quality. The use of these Data Quality Objectives for school study sites, including the Site, is to produce data that are suitable for use for a PEA-e risk screening evaluation.

Precision is the degree of agreement between independent measurements. Precision can be evaluated through the use of duplicate samples. During this investigation approximately ten percent (10%) duplicate samples were analyzed. Precision between duplicate or co-located soil samples can vary due to the inherent heterogeneity of soil. The duplicate samples collected were in general conformance with the primary samples collected. Samples in which the duplicate samples indicated a greater concentration than the primary sample; the greater concentration was used in evaluating the Site.

Evaluation of the duplicate sample data reveals that the duplicate samples collected were in general conformance with the primary samples collected. The calculated Relative Percent Difference (RPD) for the duplicate samples was less than 100 with exception of two samples for arsenic.

Samples in which the RPD exceeds 100 are considered estimated. While the results are considered estimated, the results are valid as usable data. An evaluation of the RPDs for the duplicate samples analyzed for arsenic and lead is presented on **Table 2.**

Accuracy is the degree of agreement of a measured value with true or expected value. Accuracy can be measured using percent recovery data in the laboratory using spiked concentrations. In cases were the percent recovery exceeded the acceptable range, other QA/QC procedures such as laboratory control spike and surrogates were used to validate the data. Samples in which the RPD exceeds 100 are considered estimated. While the results are considered estimated, the results are valid as usable data. All soil sample results were within acceptable parameters for accuracy.

Completeness is the percent of measurements made which are judged to be valid. Completeness can be measured by dividing the number of samples that are judged to be valid by the number of total samples. Based upon the data reviewed all samples were judged to be useable for the intended purpose.

Representativeness is the degree to which the sample data represent the characteristics of a population. Representativeness is a qualitative parameter that addresses the design of the sampling program. An example of representativeness is to evaluate if the number and locations of samples are sufficient for the purposes of this assessment. The degree to which representativeness is achieved will be evaluated upon review of the data and will be used to determine whether additional investigation is required. Based upon the objectives of this investigation the Site appears to be adequately assessed.

Comparability is a qualitative parameter that evaluates the confidence with which one data set can be compared to another. Comparability can be enhanced by using standard analytical methods performed by certified laboratories. Standard EPA analytical methods performed by analytical laboratories that participate in the California State ELAP were utilized in this investigation. Evaluation of the data collected during this investigation indicates that the level of confidence of the compared data sets is acceptable.

6.0 HUMAN HEALTH SCREENING EVALUATION

6.1 Chemicals of Concern

6.1.1 Lead

Lead was reported in 47 of the 52 samples analyzed at a maximum concentration of 114 mg/kg. Lead was reported in one sample in excess of the screening level for lead of 80 mg/kg. The calculated 95UCL concentration of lead of 32.58 mg/kg is less than the screening level of 80 mg/kg.

6.1.2 Arsenic

Arsenic was reported in all 90 soil samples analyzed at a maximum concentration of 77.6 mg/kg. Arsenic was reported in excess of the screening level of 12 mg/kg in 12 of the 90 samples analyzed, all form the 0.5-foot depth. The calculated 95UCL concentration of 11.36 mg/kg is less than the southern California background level of 12 mg/kg.

6.1.3 OCPS

Three (3) OCP compounds were reported, Chlordane, DDE and DDT. All were reported at maximum concentrations between 5.65 and 6.99 µg/kg, which are less than the screening levels for a residential land use of 440, 2,000 and 1,900 µg/kg for chlordane, DDE and DDT, respectively.

6.1.4 PCBs

No PCBs were reported in the samples analyzed for PCBs.

6.1.5 PAHs

Three (3) PAHs and 4 CPAHS were reported. All were reported at concentrations less than their respective screening levels as well as the southern California background.

6.1.6 TPH and VOCs

No TPH and VOCs were reported in the samples analyzed for TPH and VOCs.

6.2 Human Health Screening Evaluation

Based on the results of the evaluation of the soil samples analyzed and the comparison to the screening levels, no further human health screening was conducted.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Conclusions

Based on the findings of this PEA-e investigation, the objectives have been met. The following sections summarize the findings and provide conclusions that can be made relative to the Site.

7.1.1 Soil Matrix Results

The following is a summary of the findings for the soil matrix samples collected as part of this investigation.

- Arsenic was reported in all 90 soil samples analyzed at a maximum concentration of 77.6 mg/kg. Arsenic was reported in excess of the southern California background level of 12 mg/kg in 12 of the 90 samples analyzed, all from the 0.5-foot depth. A 95UCL concentration of 11.66 mg/kg was calculated. This is less than the screening level of 12 mg/kg.
- Lead was reported in 47 of the 52 samples analyzed at a maximum concentration of 114 mg/kg. Lead was reported in one sample in excess of the screening level for lead of 80 mg/kg. The calculated 95UCL concentration of lead of 32.58 mg/kg is less than the screening level of 80 mg/kg.
- Three (3) OCP compounds were reported, Chlordane, DDE and DDT. All were reported at maximum concentrations between 5.65 and 6.99 µg/kg. All of the reported OCP concentrations are less than the screening levels for a residential land use of 440, 2,000 and 1,900 µg/kg for chlordane, DDE and DDT, respectively.
- Three (3) PAHs, fluoranthene, phenanthrene and pyrene, were reported in samples PG-1 and PP-3. The maximum reported concentrations of each PAH are less than the screening levels for a residential land use. Additionally, four (4) carcinogenic PAHs (cPAHs) were reported, which were evaluated based on their benzo(a)pyrene toxicity equivalent. The maximum calculated B(a)P equivalent of 0.09544 mg/kg is less than the residential land use RSL for benzo(a) pyrene of 0.11 mg/kg.
- No PCBs were reported in the analyzed for PCBs.
- No TPH or VOCs were reported in soil samples collected and analyzed from the location of the former UST. In addition, the geophysical survey of this location provided no evidence that the UST is still present.

7.1.3 Human Health Screening Evaluation

Based on the results of the evaluation of the soil samples analyzed and the comparison to the screening levels, no further human health screening was conducted.

7.2 Recommendations

Based on the results of the sampling, no further investigation is necessary. The site is suitable for the contemplated comprehensive modernization project without any soil remediation and Rule 1466 does not apply.

8.0 LIMITATIONS

This report has been prepared for the sole benefit and exclusive use of Los Angeles Unified School District as it pertains to the McKinley Avenue Elementary School as indicated on **Figure 2**. Our services have been performed in accordance with applicable state and local ordinances and generally accepted practices in the geosciences. No other warranty, either expressed or implied, is made.

Reliance on this report by third parties is at the third parties sole risk. Site exploration identifies actual subsurface conditions only at those points where samples are taken, when they are taken. Data derived through sampling and analytical testing are extrapolated by geoscientists who then render an opinion about overall general subsurface conditions. Actual conditions in areas not sampled may differ from predictions. Converse is not responsible or liable for any claims or damages associated with the accuracy or completeness of information provided by others. This report should not be regarded as a guarantee that no further contamination, beyond that which was detected in our investigation, is present beneath the Site. In the event that changes in the nature of the Site occur, or additional, relevant information about the Site is brought to our attention, the conclusions and recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed and the conclusions of this report are modified or verified in writing.

9.0 REFERENCES

California Environmental Protection Agency, Department of Toxic Substance and Control (DTSC), 2015. PEA Guidance Manual, January 1994, Revised October 2015.

Converse Consultants, PEA - Equivalent Workplan, McKinley Avenue Elementary School, Comprehensive Modernization Project, October 12, 2018.

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Rincon Consultants Inc, Phase I Environmental Site Assessment, 7812 McKinley Avenue Lod Angeles, California, July 28, 2017

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United States Environmental Protection Agency (USEPA), 2018. Regional Screening Level (RSL) Summary Table, for Target Cancer Risk of 1 x 10^{-6} and target hazard quotient of 1.0, dated November 2018, downloaded from https://semspub.epa.gov/work/HQ/197418.pdf, in January 2019.

Tables

Table 1
Summary of Analytical Results - Lead and Arsenic
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, California

Sample ID	Sample Date	Depth (feet bgs)	Laboratory Job Number	Lead	Arsenic	RPD	
						Lead	Arsenic
PP-1-1.0	12/26/2018	0.5	95574		**3.95**		
PP-2-0.5	12/26/2018	0.5	95574		**4.12**		
PP-3-0.5	12/26/2018	0.5	95574		**6.40**		
PP-4-0.5	12/26/2018	0.5	95574		**5.36**		
PP-5-0.5	12/26/2018	0.5	95574		**4.64**		
PP-6-0.5	12/26/2018	0.5	95574		**4.18**		
PG-1-0.5	12/26/2018	0.5	95574		**77.6**		
PG-1-2.0	12/26/2018	2.0	95574		**1.07**		
PG-1-3.0	12/26/2018	3.0	95574		**0.736**		
PG-2-0.5	12/26/2018	0.5	95575		**10.6**		
PG-3-0.5	12/26/2018	0.5	95574		**61.9**		
PG-3-2.0	12/26/2018	2.0	95574		**4.80**		
PG-3-3.0	12/26/2018	3.0	95574		**2.38**		
PG-4-0.5	12/26/2018	0.5	95574		**1.31**		
PG-5-0.5	12/26/2018	0.5	95575		**3.34**		
PG-6-0.5	12/26/2018	0.5	95575		**2.87**		
PG-7-0.5	12/26/2018	0.5	95575		**15.6**		
PG-8-0.5	12/26/2018	0.5	95575		**1.01**		
PG-9-0.5	12/26/2018	0.5	95574		**13.3**		
PG-10-0.5	12/26/2018	0.5	95574		**0.809**		
PG-11-0.5	12/26/2018	0.5	95575		**0.916**		
PG-12-0.5	12/26/2018	0.5	95575		**2.58**		
PG-13-0.5	12/26/2018	0.5	95575		**52.8**		
PG-13-2.0	12/26/2018	2.0	95575		**8.34**		
PG-13-3.0	12/26/2018	3.0	95575		**0.695**		
PG-14-0.5	12/26/2018	0.5	95575		**0.65**		
PG-15-0.5	12/26/2018	0.5	95574		**2.17**		
PG-16-0.5	12/26/2018	0.5	95574		**2.23**		
PG-17-0.5	12/26/2018	0.5	95575		**5.23**		
PG-18-0.5	12/26/2018	0.5	95575		**0.995**		
PG-19-0.5	12/26/2018	0.5	95575		**1.37**		
PG-20-0.5	12/26/2018	0.5	95574		**3.91**		
PG-21-0.5	12/26/2018	0.5	95574		**0.923**		
PG-24-0.5	12/26/2018	0.5	95575		**0.768**		
S2-E1-0.5	12/27/2018	0.5	95591	**38.9**	**24**		
S2-N1-0.5	12/28/2018	0.5	95591	**6.95**	**1.83**		
DUP5	12/28/2018	0.5	95598	**28.6**	**1.78**	**121.80**	**-2.77**
S2-N2-0.5	12/27/2018	0.5	95591	**59.1**	**9.44**		
S2-N3-0.5	12/27/2018	0.5	95591	**6.88**	**2.13**		
S2-W1-0.5	12/28/2018	0.5	95591	**41.4**	**6.17**		
S2-W2-0.5	12/28/2018	0.5	95591	**23.9**	**4.06**		

Table 1
Summary of Analytical Results - Lead and Arsenic
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, California

Sample ID	Sample Date	Depth (feet bgs)	Laboratory Job Number	Lead	Arsenic	RPD	
						Lead	Arsenic
S3-E1-0.5	12/28/2018	0.5	95591	**8.12**	**2.41**		
S3-E2-0.5	12/28/2018	0.5	95591	**44.1**	**1.52**		
S3-S1-0.5	12/28/2018	0.5	95591	**58.5**	**3.38**		
S3-W1-0.5	12/28/2018	0.5	95591	**49.9**	**11.7**		
DUP7	12/28/2018	0.5	95598	**8.00**	**20.1**	**-144.73**	**52.83**
S3-W2-0.5	12/28/2018	0.5	95591	**50.1**	**13.3**		
S3-W3-0.5	12/28/2018	0.5	95591	**46.9**	**28.6**		
S4-N1-0.5	12/27/2018	0.5	95591	**8.64**	**0.821**		
DUP3	12/27/2018	0.5	95598	***4.12***	**1.27**	**-70.85**	**42.95**
S4-N2-0.5	12/27/2018	0.5	95591	***2.95***	**1.13**		
S4-S1-0.5	12/28/2018	0.5	95591	**20.4**	**2.60**		
S4-S2-0.5	12/27/2018	0.5	95591	***4.73***	**10.4**		
S4-W1-0.5	12/28/2018	0.5	95591	**22.1**	**3.62**		
S4-E1-0.5	12/27/2018	0.5	95590	ND<2.5	**1.00**		
DUP2	12/27/2018	0.5	95598	***2.97***	**0.955**	**17.18**	**-4.60**
S4-S3-0.5	12/27/2018	0.5	95590	ND<2.5	**0.936**		
S5-E1-0.5	12/27/2018	0.5	95590	**9.50**	**0.978**		
S5-N2-0.5	12/28/2018	0.5	95590	**5.00**	**0.76**		
S5-S1-0.5	12/28/2018	0.5	95590	**5.77**	**1.04**		
S5-S2-0.5	12/27/2018	0.5	95590	***8.32***	**1.30**		
DUP6	12/27/2018	0.5	95598	***4.61***	**0.966**	**-57.39**	**-29.48**
S5-W1-0.5	12/28/2018	0.5	95590	ND<2.5	**0.983**		
S5-W2-0.5	12/27/2018	0.5	95590	**7.92**	**1.50**		
S6-E1-0.5	12/27/2018	0.5	95590	ND<2.5	**1.09**		
S6-W1-0.5	12/27/2018	0.5	95590	***2.88***	**0.824**		
S7-E1-0.5	12/27/2018	0.5	95593	**22.0**	**5.43**		
S7-N1-0.5	12/28/2018	0.5	95593	**27.5**	**3.55**		
S7-N2-0.5	12/28/2018	0.5	95593	**39.2**	**2.19**		
S7-N3-0.5	12/28/2018	0.5	95593	***4.91***	**0.606**		
S7-N4-0.5	12/28/2018	0.5	95593	**5.37**	**0.732**		
S7-N5-0.5	12/28/2018	0.5	95593	**6.24**	**0.825**		
DUP4	12/28/2018	0.5	95598	**6.43**	**1.23**	**3.00**	**39.42**
S7-S1-0.5	12/27/2018	0.5	95593	**17.5**	**5.69**		
S7-S2-0.5	12/27/2018	0.5	95593	**28.1**	**4.93**		
S7-S3-0.5	12/27/2018	0.5	95593	**10.1**	**3.21**		
S7-S4-0.5	12/27/2018	0.5	95593	**21.2**	**3.40**		
S7-S5-0.5	12/27/2018	0.5	95593	**26.3**	**3.50**		
S7-W1-0.5	12/27/2018	0.5	95593	**19.8**	**4.04**		

Table 1
Summary of Analytical Results - Lead and Arsenic
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, California

Sample ID	Sample Date	Depth (feet bgs)	Laboratory Job Number	Lead	Arsenic	RPD	
						Lead	Arsenic
S9-E1-0.5	12/28/2018	0.5	95592	ND<2.5	**0.61**		
S9-E2-0.5	12/28/2018	0.5	95592	**12.8**	**3.26**		
S9-N1-0.5	12/27/2018	0.5	95592	**25.8**	**4.38**		
S9-N2-0.5	12/27/2018	0.5	95592	**20.9**	**3.49**		
S9-S1-0.5	12/28/2018	0.5	95592	**20.8**	**4.42**		
S9-W1-0.5	12/27/2018	0.5	95592	**16.4**	**3.09**		
S11-1-0.5	12/27/2018	0.5	95594		**2.65**		
S11-2-0.5	12/27/2018	0.5	95594		**4.34**		
S12-1-0.5	12/27/2018	0.5	95594		**2.69**		
S12-2-0.5	12/27/2018	0.5	95594		**3.28**		
DUP1	12/27/2018	0.5	95598	**114**	**7.91**	NA	**82.75**

Samples Analyzed		52	90
Count >ND		47	90
Method Detection Limit		2.5	0.05
Maximum Concentration		114	77.6
95 UCL		32.58	11.66
Screening Level		80	12
Exceedances		1	9

all concentations in milligrams per kilogram (mg/kg)
An STLC of 1.36 mg/l was reported for location PG-1-0.5
Locations PG-22 and PG-23 not sampled due to utilities and access issues

bgs	Below ground surface
ND	Not detected above the MDL
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
--	Not analyzed
STLC	Soluble threshold limit concentration
mg/l	milligrams per liter

Table 2
Summary of Analytical Results - OCPs
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, Califronia

Sample Location	Date	Sample Locations	Depth (feet bgs)	Organochlorine Pesticides - µg/kg			
				Chlordane	DDE	DDT	All other OCPS
COMP 2.1-0.5	12/27/2018	S2-N1, S2-W1, S2-W2	0.5-1.0	ND	ND	ND	ND
COMP 2.2-0.5	12/27/2018	S2-N2, S2-N3, S2-E1	0.5-1.0	**1.11** J	ND	ND	ND
COMP 3.1-0.5	12/27/2018	S3-W1, S3-W2, S3-W3, S3-S1	0.5-1.0	ND	ND	ND	ND
COMP 3.2-0.5	12/27/2018	S3-E1, S3-E2, S4-N1, S4-N2	0.5-1.0	**1.83** J	ND	ND	ND
COMP 4.1-0.5	12/27/2018	S4-S2, S4-S1, S4-W1	0.5-1.0	ND	ND	ND	ND
COMP 4.2-0.5	12/27/2018	S5-S1, S4-E1, S4-S3, S5-W2	0.5-1.0	ND	ND	ND	ND
COMP 5.1 -0.5	12/27/2018	S5-S2, S6-E1, S6-W1, S5-E1	0.5-1.0	ND	ND	ND	ND
COMP 5.2-0.5	12/27/2018	S5-W1, S5-N2,	0.5-1.0	ND	ND	ND	ND
COMP 7.1-0.5	12/27/2018	S7-S1, S7-N1, S7-N2, S7-W1	0.5-1.0	ND	ND	ND	ND
COMP 7.2-0.5	12/27/2018	S7-S2, S7-S3, S7-N3, S7-N4,	0.5-1.0	**5.65** J	**5.73** J	**6.99** J	ND
COMP 7.3-0.5	12/27/2018	S7-S4, S7-S5, S7-N5, S7-E1	0.5-1.0	ND	ND	ND	ND
COMP 9.1-0.5	12/27/2018	S9-N1, S9-N2, S9-W1, S9-E1	0.5-1.0	ND	ND	ND	ND
COMP 9.2-0.5	12/27/2018	S9-E2, S9-S1	0.5-1.0	ND	ND	ND	ND
Samples Analyzed				13	13	13	13
Detections				3	1	1	--
Method Detection Limit				1.0	1.0	1.0	--
Maximum Concentration				5.65	5.73	6.99	--
Screening Level				440	2,000	1,900	--
Detections > Screening Level				0	0	0	--

Screening levels based on DTSC HHRA Note 3 (June 2018) and November 2018 EPA RSLS

J Estimated concentration between the PQL and MDL
bgs Below ground surface
µg/kg micrograms per kilogram
ND Not detected above the MDL
MDL Method Detection Limit
PQL Practical Quantitation Limit

Table 3
Summary of Analytical Results -PCBs
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, Califronia

Sample ID	Sample Date	Laboratory Job Number	Aroclor-1016 (PCB-1016)	Aroclor-1221 (PCB-1221)	Aroclor-1232 (PCB-1232)	Aroclor-1242 (PCB-1242)	Aroclor-1248 (PCB-1248)	Aroclor-1254 (PCB-1254)	Aroclor-1260 (PCB-1260)	Aroclor-1262 (PCB-1262)	Aroclor-1268 (PCB-1268)
PG-19-0.5	12/26/2018	95575	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0
S2-E1-0.5	12/27/2018	95591	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
S3-E2-0.5	12/28/2018	95591	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0
S5-S1-0.5	10/28/2018	95590	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0
S6-E1-0.5	12/27/2018	95590	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0	ND<25.0
S7-E1-0.5	12/27/2018	95593	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125
S9-E2-0.5	12/28/2018	95592	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
S9-N1-0.5	12/27/2018	95592	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125	ND<125
Samples Analyzed			8	8	8	8	8	8	8	8	8
Detections			0	0	0	0	0	0	0	0	0
Screening Level			410	200	170	230	230	120	240	240	240
Detections > Screening Level			0	0	0	0	0	0	0	0	0

all concentrations in micrograms per kilogram (ug/kg)
Screening levels based on DTSC HHRA Note 3 (June 2018) and November 2018 EPA RSLS
Screeing level for Aroclor 1260 used as surrogate for Aroclors 1262 and 1268.

bgs Below ground surface
ND Not detected above the MDL
MDL Method Detection Limit
PQL Practical Quantitation Limit

Table 4
Summary of Analytical Results -PAHs
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, Califronia

Sample ID	Sample Date	Depth (feet bgs)	Fluoranthene	Phenanthrene	Pyrene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Indeno(1,2,3-cd)pyrene	B(a)P Equivalent
PG-1-0.5	12/26/2018	0.5	ND<0.020	ND<0.020	ND<0.020	ND<0.020	***0.0311***	ND<0.020	ND<0.020	***0.0344***	ND<0.020	ND<0.020	**0.03884**
PG-16-0.5	12/26/2018	0.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	**0.00875**
PP-3-0.5	12/26/2018	0.5	**0.0338**	***0.0123***	**0.036**	ND<0.010	**0.0835**	**0.0562**	**0.0357**	ND<0.010	ND<0.010	ND<0.010	**0.09544**
PG-11-0.5	12/26/2018	0.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	**0.00875**
PG-14-0.5	12/26/2018	0.5	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	**0.00875**
PG-19-0.5	12/26/2018	0.2	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	ND<0.010	**0.00875**

Residential Screening Level	2,400	1,800	1,800	1.1	0.11	1.1	11	110	11	1.1	**0.11**
Commercial Screening Level	30,000	23,000	23,000	21	2.1	21	210	2100	2.1	21	**2.1**

all concentrations in milligrams per kilogram
screening levels based on November 2018 EPA Regional Screening Levels
Italics indicate an estimated concentration between the MDL and PQL
Highlighted columns indicate carcinogenic PAHs (cPAHs)

PAHs	Polynuclear Aromatic Hydrocarbons
B(a)P	Benzo (a) Pyrene
bgs	below ground surface
nd	not detected above the MDL
PQL	Practical Quantiation Limit
MDL	Method Detection Limit

Table 5
Summary of Analytical Results -Former UST (TPH and VOCs)
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, Califronia

Sample ID	Sample Date	Laboratory Job Number	TPH as Gasoline and Light HC (C4-C12)	TPH as Diesel (C13-C22)	TPH as Heavy Hydrocarbons (C23-C40)	VOCs All
			mg/Kg	mg/Kg	mg/Kg	ug/kg
UST-5	12/28/2018	95597	ND<0.100	ND<1.0	ND<1.0	NA
UST-10	12/28/2018	95597	ND<0.100	ND<1.0	ND<1.0	ND
UST-15	12/28/2018	95597	ND<0.100	ND<1.0	ND<1.0	NA
UST-DUP	12/28/2018	95597	ND<0.100	ND<1.0	ND<1.0	NA

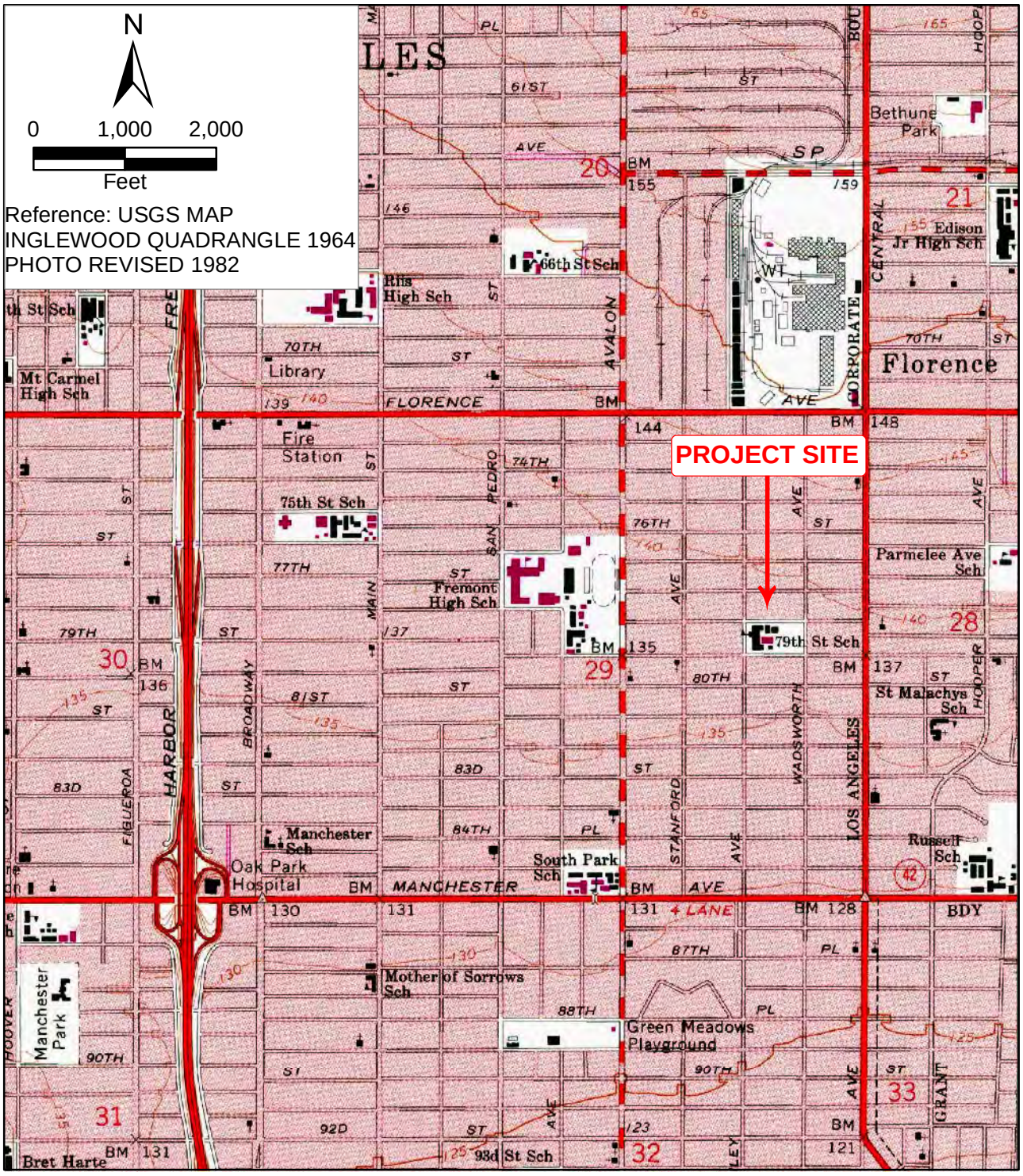
TPH	Total Petroleum Hydrocarbons
VOCs	Volatile Organic Compounds
HC	Hydrocarbons
mg/kg	milligrams per kilogram
ug/kg	micrograms per kilogram

Table 6
Summary of Analytical Results -Asbestos in Soil
McKinley Avenue Elementary School
7812 McKinley Avenue
Los Angeles, Califronia

Sample ID	Sample Date	Depth (feet bgs)	Asbestos by PLM
S2-N2-0.5	10/28/2018	0.5	None detected
S3-E1-0.5	12/28/2018	0.5	None detected
S3-W2-0.5	12/28/2018	0.5	None detected
S4-S2-0.5	12/27/2018	0.5	None detected
S5-N2-0.5	12/27/2018	0.5	None detected
S5-W1-0.5	12/28/2018	0.5	None detected
S7-N1-0.5	12/28/2018	0.5	None detected
S7-S5-0.5	12/27/2018	0.5	None detected
S9-W1-0.5	12/27/2018	0.5	None detected
PG-2-05	12/26/2018	0.5	None detected
PG-8-0.5	12/26/2018	0.5	None detected
PG-11-0.5	12/26/2018	0.5	None detected
PG-19-05	12/26/2018	0.5	None detected
PG-20-05	12/26/2018	0.5	None detected
PG-24-0.5	12/26/2018	0.5	None detected
Samples Analyzed			15
Detections			0

bgs Below ground surface
PLM Polarized Light Microscopy

Figures



SITE LOCATION MAP

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

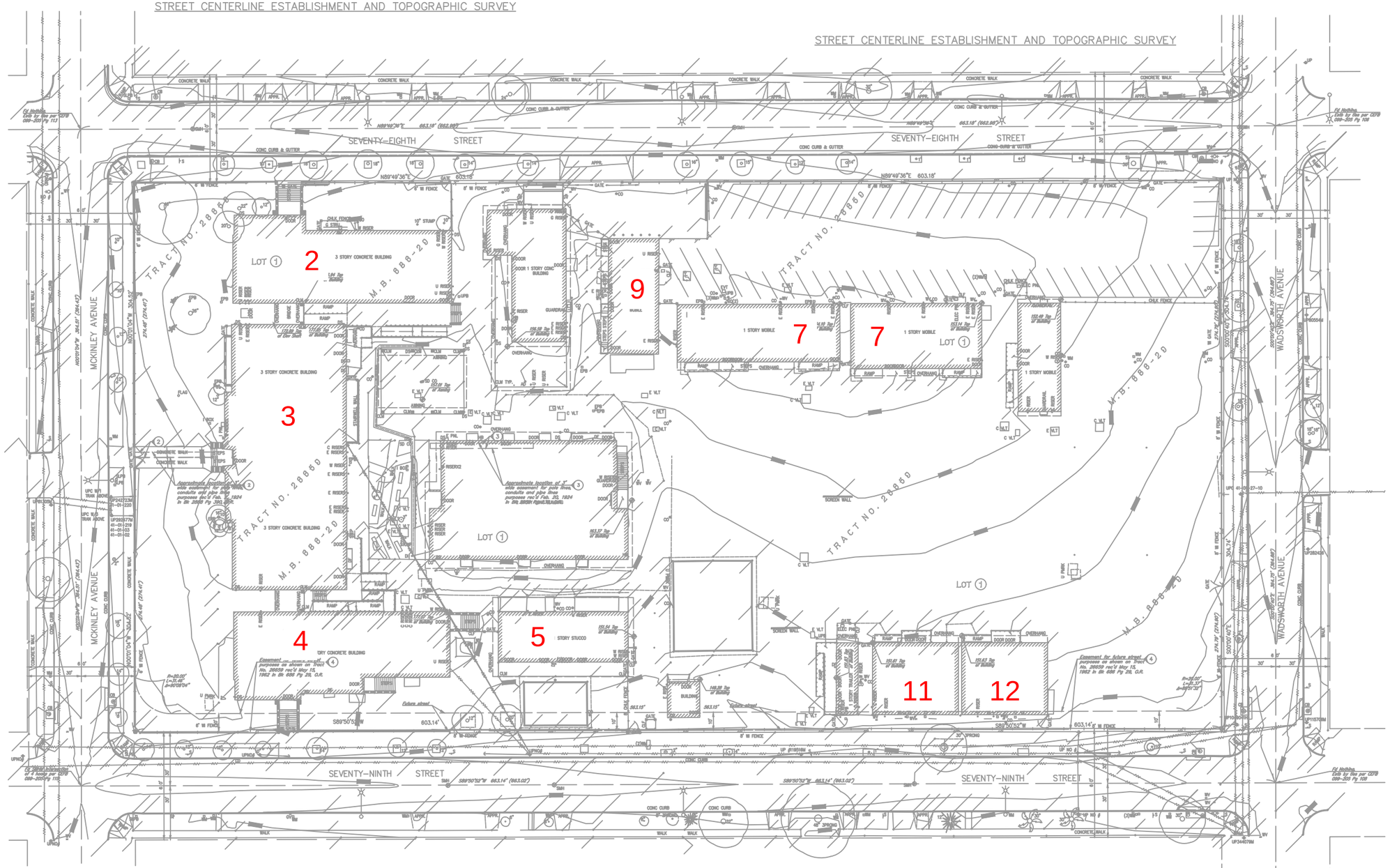
Project No.
18-41-233-01

Converse Consultants

Figure No.
1

STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY



STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

N

60′ 30′ 0′ 60′ 120′

GRAPHIC SCALE
SCALE 1″=60′

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SITE PLAN

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale: GRAPHIC SCALE
Date: JAN. 2019

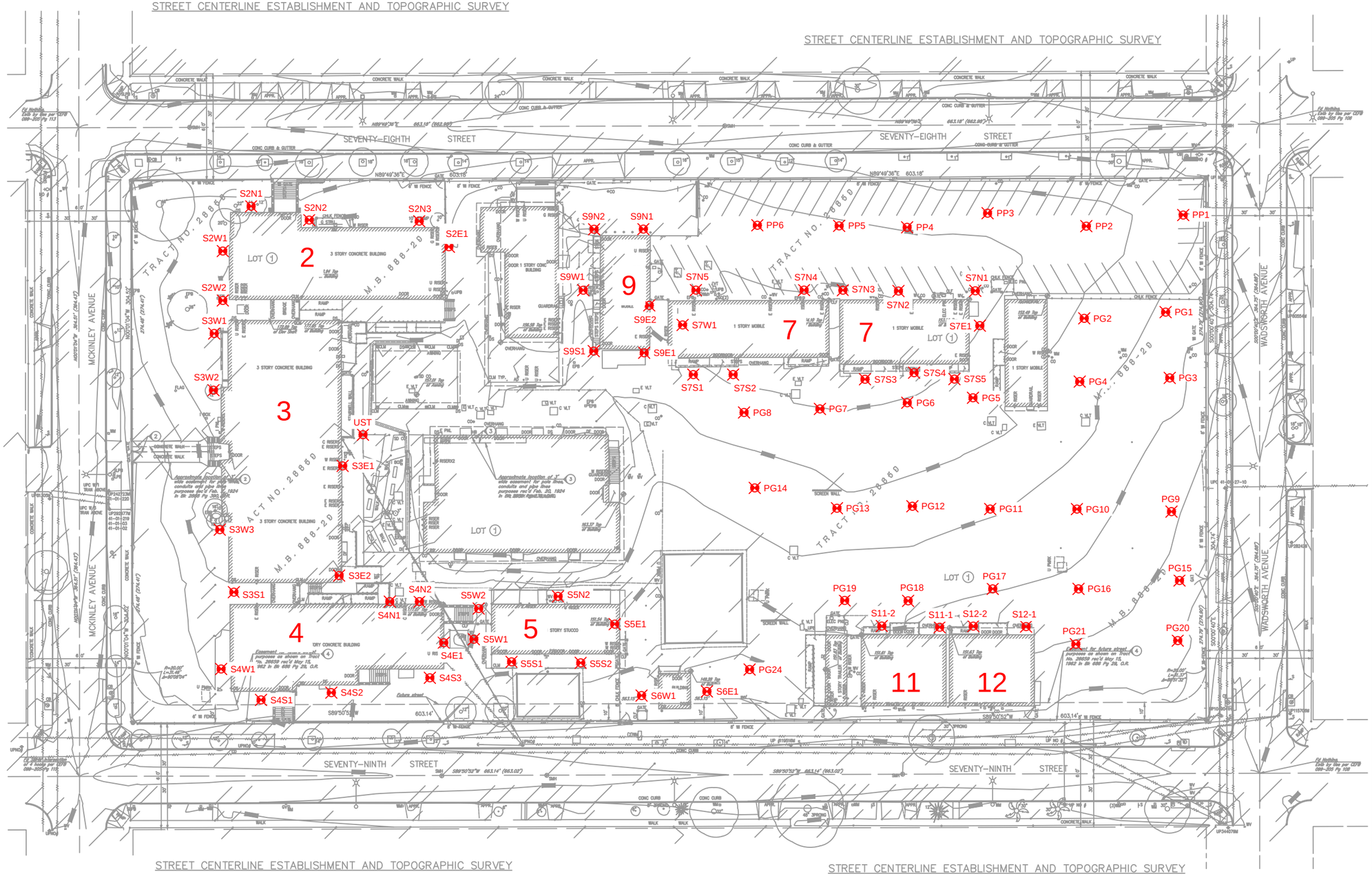
Project No.: 18-41-233-01

DRAWING NO.: 2

Converse Consultants

STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY



STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

STREET CENTERLINE ESTABLISHMENT AND TOPOGRAPHIC SURVEY

LEGEND

BORING LOCATION

60′ 30′ 0′ 60′ 120′

GRAPHIC SCALE
SCALE 1″=60′

SOIL SAMPLE LOCATION MAP

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale: GRAPHIC SCALE
Date: JAN. 2019

Project No.: 18-41-233-01

DRAWING NO.: 3

Converse Consultants

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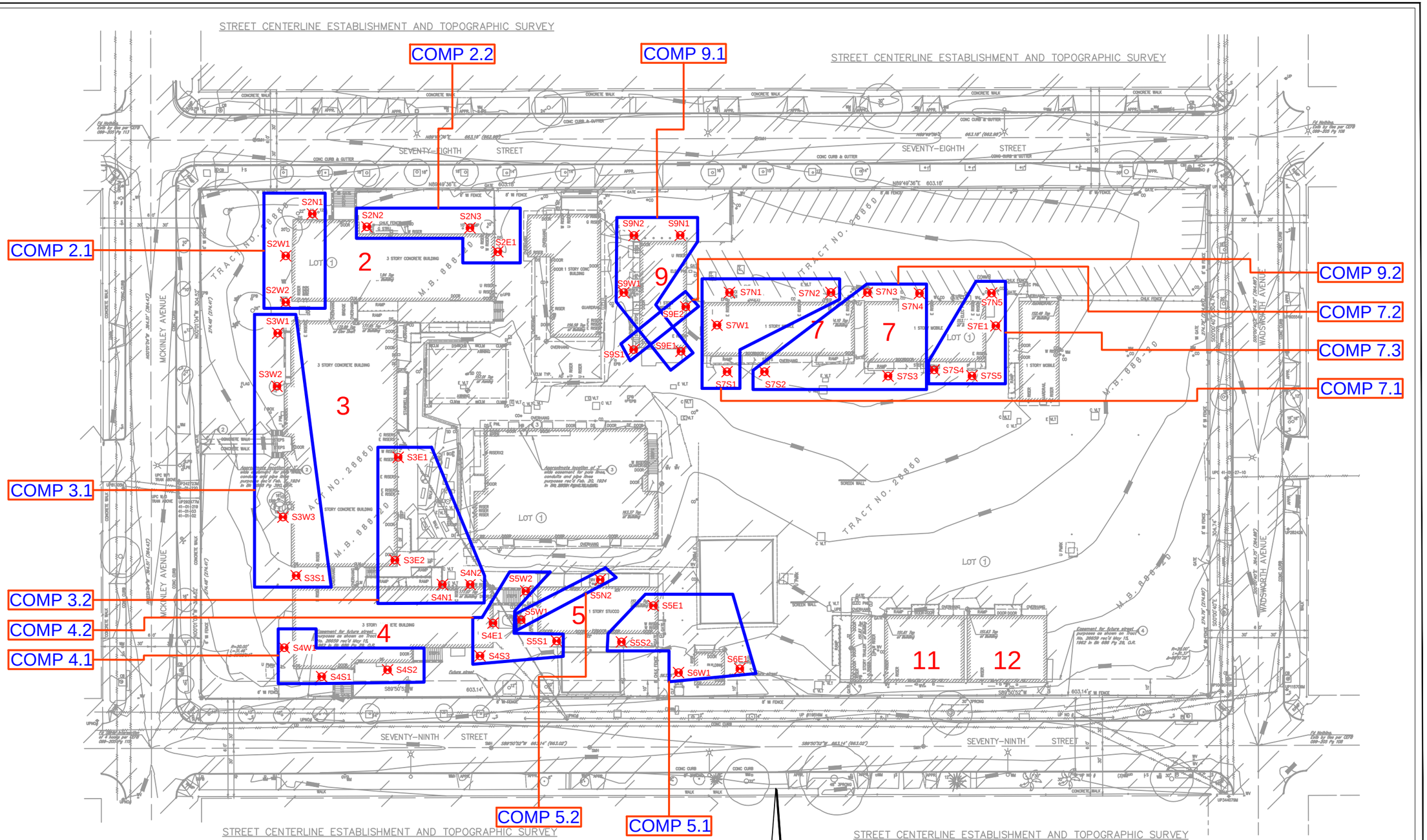

LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

LOCATION OF COMPOSITE SAMPLES

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30′ 15′ 0′ 30′ 60′

GRAPHIC SCALE
SCALE 1″=30′

SAMPLE LOCATION MAPS-OCPS

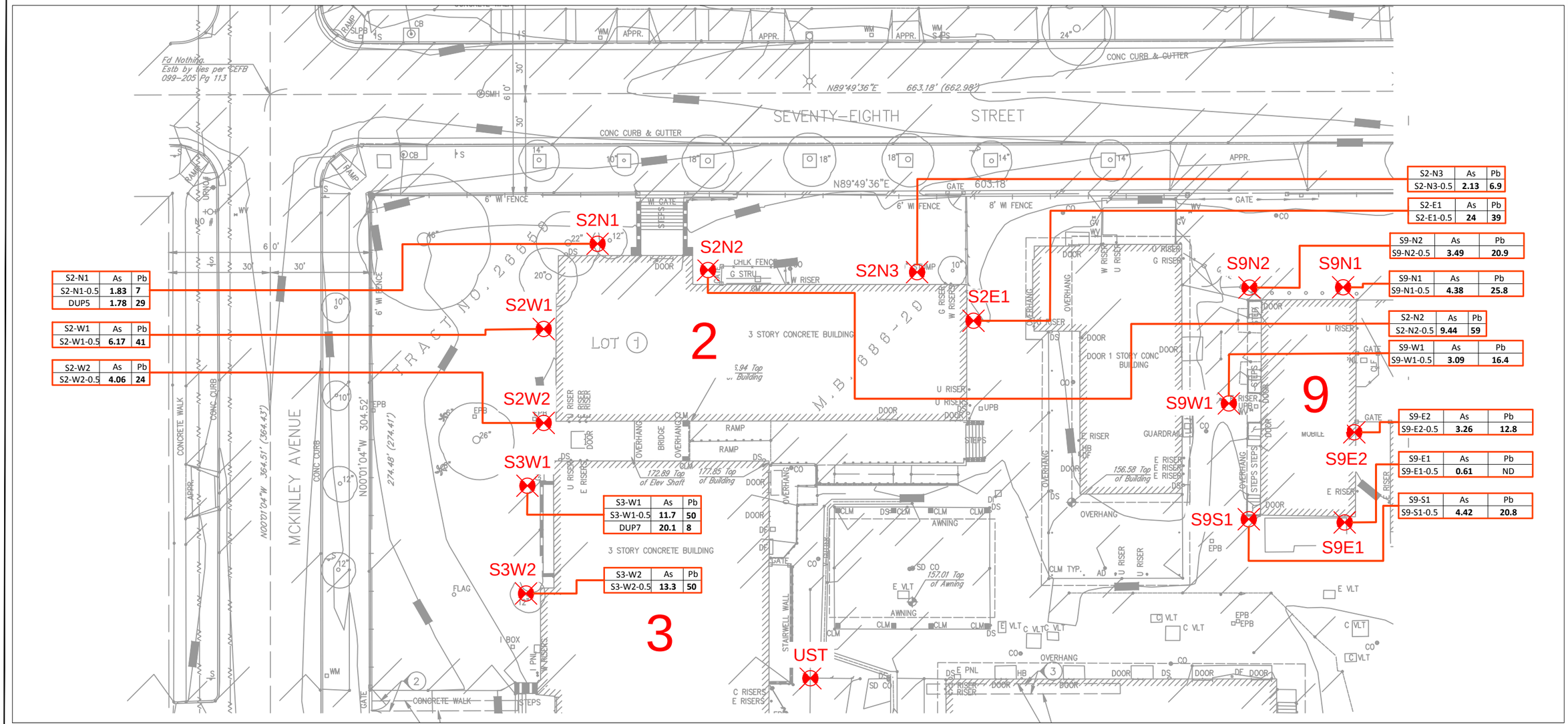
LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale: GRAPHIC SCALE
Date: JAN. 2019

Project No.: 18-41-233-01

DRAWING NO.: 4

Converse Consultants



LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

LOCATION ON SITE PLAN

30′ 15′ 0′ 30′ 60′
GRAPHIC SCALE
SCALE 1″=30′

SAMPLE LOCATION MAP- LEAD & ARSENIC NW PORTION

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale: GRAPHIC SCALE
Date: JAN. 2019
Project No.: 18-41-233-01
DRAWING NO.: 5

Converse Consultants

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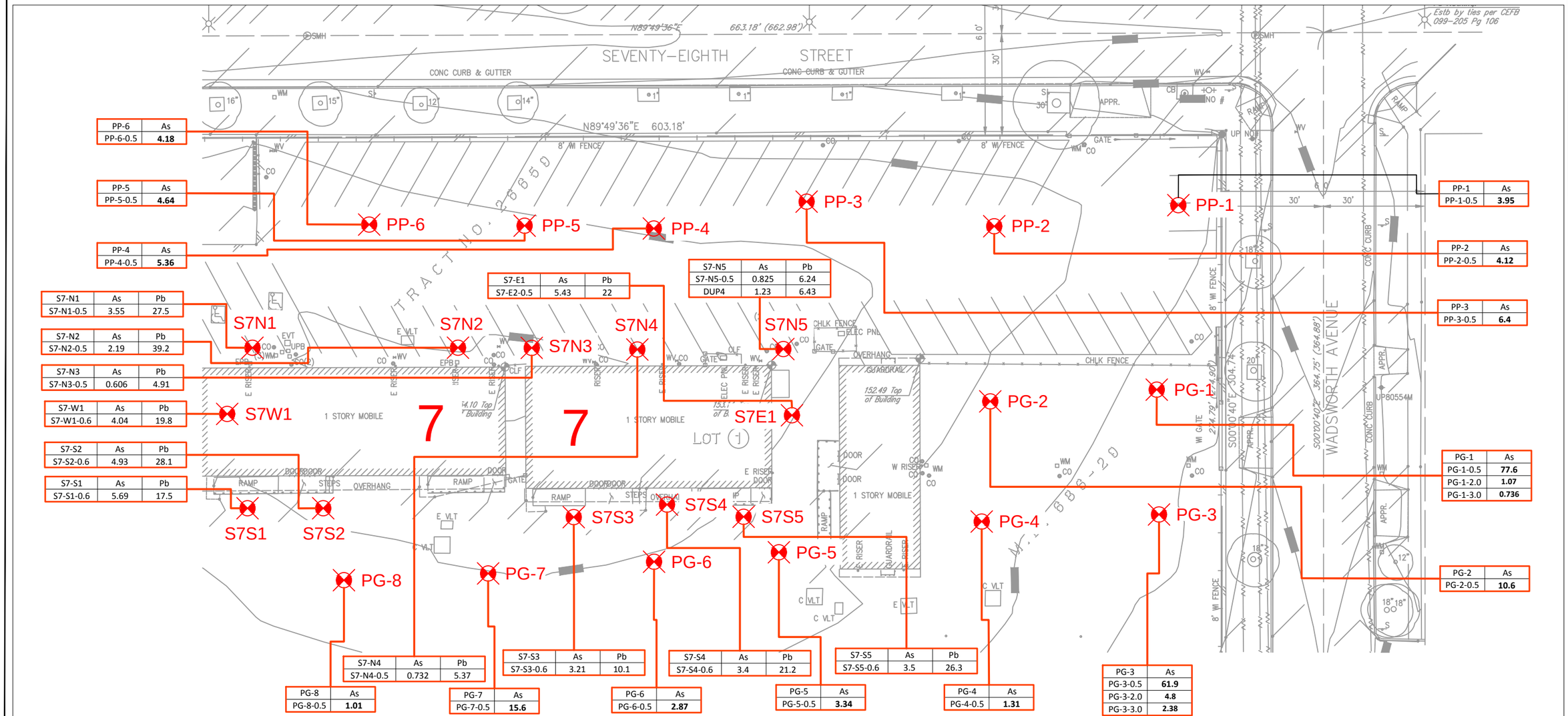

PP-6	As
PP-6-0.5	**4.18**

PP-5	As
PP-5-0.5	**4.64**

PP-4	As
PP-4-0.5	**5.36**

S7-N1	As	Pb
S7-N1-0.5	3.55	27.5

S7-N2	As	Pb
S7-N2-0.5	2.19	39.2

S7-N3	As	Pb
S7-N3-0.5	0.606	4.91

S7-W1	As	Pb
S7-W1-0.6	4.04	19.8

S7-S2	As	Pb
S7-S2-0.6	4.93	28.1

S7-S1	As	Pb
S7-S1-0.6	5.69	17.5

S7-E1	As	Pb
S7-E2-0.5	5.43	22

S7-N5	As	Pb
S7-N5-0.5	0.825	6.24
DUP4	1.23	6.43

PP-1	As
PP-1-0.5	**3.95**

PP-2	As
PP-2-0.5	**4.12**

PP-3	As
PP-3-0.5	**6.4**

PG-1	As
PG-1-0.5	**77.6**
PG-1-2.0	**1.07**
PG-1-3.0	**0.736**

PG-2	As
PG-2-0.5	**10.6**

PG-3	As
PG-3-0.5	**61.9**
PG-3-2.0	**4.8**
PG-3-3.0	**2.38**

PG-4	As
PG-4-0.5	**1.31**

PG-5	As
PG-5-0.5	**3.34**

PG-6	As
PG-6-0.5	**2.87**

PG-7	As
PG-7-0.5	**15.6**

PG-8	As
PG-8-0.5	**1.01**

S7-N4	As	Pb
S7-N4-0.5	0.732	5.37

S7-S3	As	Pb
S7-S3-0.6	3.21	10.1

S7-S4	As	Pb
S7-S4-0.6	3.4	21.2

S7-S5	As	Pb
S7-S5-0.6	3.5	26.3

LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

LOCATION ON SITE PLAN

30′ 15′ 0′ 30′ 60′

GRAPHIC SCALE
SCALE 1″=30′

SAMPLE LOCATION MAP- LEAD & ARSENIC NE PORTION

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale: GRAPHIC SCALE
Date: JAN. 2019
Project No.: 18-41-233-01
DRAWING NO.: 6

Converse Consultants

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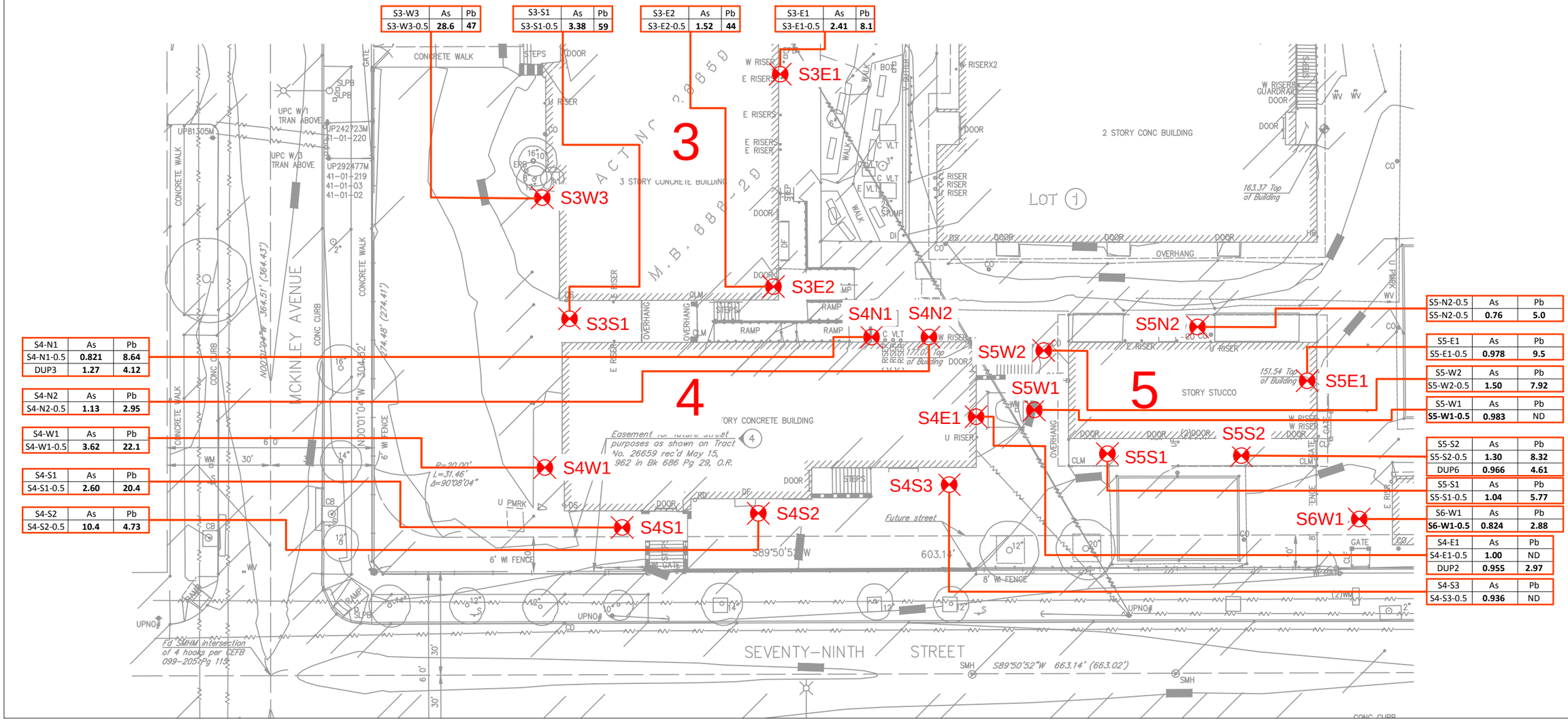

LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

LOCATION ON SITE PLAN

30′ 15′ 0′ 30′ 60′

GRAPHIC SCALE
SCALE 1″=30′

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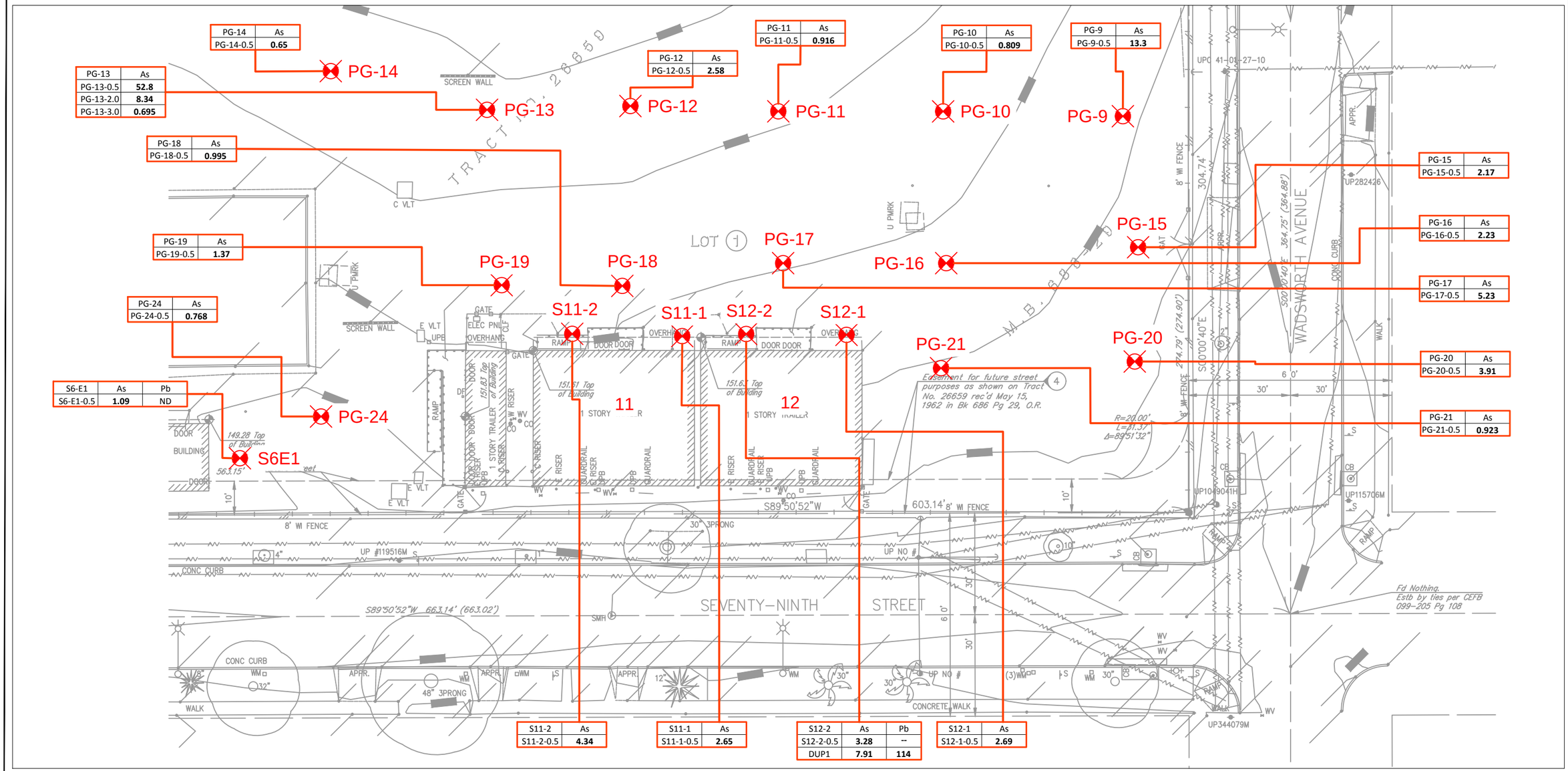
SAMPLE LOCATION MAP- LEAD & ARSENIC SW PORTION

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale: GRAPHIC SCALE
Date: JAN. 2019
Project No.: 18-41-233-01
DRAWING NO.: 7

Converse Consultants



LEGEND

BORING LOCATION
ALL CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM

LOCATION ON SITE PLAN

GRAPHIC SCALE
SCALE 1"=30'

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SAMPLE LOCATION MAP- LEAD & ARSENIC SE PORTION

LAUSD MCKINLEY ELEMENTARY SCHOOL
7812 MCKINLEY AVENUE
LOS ANGELES, CALIFORNIA

Scale: GRAPHIC SCALE
Date: JAN. 2019
Project No.: 18-41-233-01
DRAWING NO.: 8

Converse Consultants

Sampling Rationale

Appendix A

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
~~S1N1~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group S1.1~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S1E1~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group S1.1~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~			~~hold~~		
~~S1S1~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group S1.1~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S1W2~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group S1.2~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S1W1~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group S1.2~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S1W3~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group S1.2~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
S2N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.1	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S2N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.2	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S2N3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S2E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group S2.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold		
S2W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S2W2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S2.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			

Not Sampled Building to Remain

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
S3W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.1	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S3W2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S3W3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S3S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S3E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.2	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S3E2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group S3.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold		
S4N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S4N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group S3.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S4E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.2	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S4S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.1	1
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			hold
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			hold
S4S2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S4S3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S4W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 4.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
S5N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group S5.2	1
	1.5 to 2.0 feet		hold	hold			hold
	2.5 to 3 feet		hold	hold			hold
S5N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group S5.2	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S5E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group S5.1	1
	1.5 to 2.0 feet		hold	hold			hold
	2.5 to 3 feet		hold	hold			hold
S5S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1	1	Composite Group S4.2	
	1.5 to 2.0 feet		hold	hold	hold		
	2.5 to 3 feet		hold	hold	hold		
S5S2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group S5.1	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S5W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group S4.2	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S6E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1	1	Composite Group S5.1	
	1.5 to 2.0 feet		hold	hold	hold		
	2.5 to 3 feet		hold	hold	hold		
S6W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group S5.1	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S7N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 7.1	1
	1.5 to 2.0 feet		hold	hold			hold
	2.5 to 3 feet		hold	hold			hold
S7N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 7.1	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S7N3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 7.2	1
	1.5 to 2.0 feet		hold	hold			hold
	2.5 to 3 feet		hold	hold			hold
S7N4	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 7.2	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S7N5	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 7.3	1
	1.5 to 2.0 feet		hold	hold			hold
	2.5 to 3 feet		hold	hold			hold

Appendix A
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Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

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			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
S7E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1	1	Composite Group 7.3	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold	hold		
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold	hold		
S7S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S7S2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S7S3	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.2	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S7S4	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.3	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S7S5	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.3	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
S7W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs)	1	1		Composite Group 7.1	
	1.5 to 2.0 feet	Pre 1993 (Lead)	hold	hold			
	2.5 to 3 feet	Pavement (Arsenic)	hold	hold			
~~S8N1~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group 8.1~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S8N2~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group 8.1~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S8E1~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group 8.1~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S8S1~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group 5.2~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S8S2~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group 5.2~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					
~~S8W1~~	~~Surface (0 to 0.5 feet)~~	~~Pre 1989 (OCPs)~~				~~Composite Group 8.1~~	
	~~1.5 to 2.0 feet~~	~~Pre 1993 (Lead)~~					
	~~2.5 to 3 feet~~	~~Pavement (Arsenic)~~					

Not Sampled Buiilding to Remain

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
S9N1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1	1	Composite Group 9.1	1
	1.5 to 2.0 feet		hold	hold	hold		hold
	2.5 to 3 feet		hold	hold	hold		hold
S9N2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 9.1	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S9E1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1	1	Composite Group 9.1	
	1.5 to 2.0 feet		hold	hold	hold		
	2.5 to 3 feet		hold	hold	hold		
S9E2	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 9.2	1
	1.5 to 2.0 feet		hold	hold			hold
	2.5 to 3 feet		hold	hold			hold
S9S1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 9.2	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S9W1	Surface (0 to 0.5 feet)	Pre 1989 (OCPs) Pre 1993 (Lead) Pavement (Arsenic)	1	1		Composite Group 9.1	
	1.5 to 2.0 feet		hold	hold			
	2.5 to 3 feet		hold	hold			
S10	Surface (0 to 0.5 feet)	Post 2006 Portable Pavement (Arsenic)					
	1.5 to 2.0 feet						
	2.5 to 3 feet						
S11	Surface (0 to 0.5 feet)	Post 2006 Portable Pavement (Arsenic)	2				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
S12	Surface (0 to 0.5 feet)	Post 2006 Portable Pavement (Arsenic)	2				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP1	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP2	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP3	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP4	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
PP5	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PP6	Surface (0 to 0.5 feet)	General Site Screening Parking Lot (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG1	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG2	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG3	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG4	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG5	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG6	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG7	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG8	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG9	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG10	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG11	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				

Appendix A
Sampling Rationale
Lead, Arsenic, PCBs and OCPs
Preliminary Environmental Assessment Equivalent
McKinley Elementary School

Boring ID	Sampling Depths (feet below grade)	Sampling Rationale	Laboratory Analyses				
			Arsenic (As) by 6020	Lead (Pb) by 6010B	PCBs EPA 8082	Organochlorine Pesticides (OCPs) by 8081A (See Table 2)	
PG12	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG13	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG14	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG15	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG16	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG17	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG18	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG19	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1		1		
	1.5 to 2.0 feet		hold		hold		
	2.5 to 3 feet		hold		hold		
PG20	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
PG21	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
~~PG22~~	~~Surface (0 to 0.5 feet)~~	~~General Site Screening Playground (Arsenic)~~					
	~~1.5 to 2.0 feet~~						
	~~2.5 to 3 feet~~						
~~PG23~~	~~Surface (0 to 0.5 feet)~~	~~General Site Screening Playground (Arsenic)~~					
	~~1.5 to 2.0 feet~~						
	~~2.5 to 3 feet~~						
PG24	Surface (0 to 0.5 feet)	General Site Screening Playground (Arsenic)	1				
	1.5 to 2.0 feet		hold				
	2.5 to 3 feet		hold				
Total Primary Samples			77	45	8		13
Duplicate Samples			7	7			

Not Sampled due to utilities and access

Public Notice

Appendix B

Los Angeles Unified School District

Office of Environmental Health and Safety

AUSTIN BEUTNER
Superintendent of Schools

VIVIAN EKCHIAN
Deputy Superintendent

CARLOS A. TORRES
Director, Environmental Health and Safety

December 14, 2018

TO: Neighbors, Students, and Staff Members of
McKinley Avenue Elementary School

FROM: Los Angeles Unified School District
Office of Environmental Health and Safety

REGARDING: Environmental Assessment
McKinley Avenue 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 McKinley Avenue Elementary School, located at 7812 McKinley Avenue, Los Angeles, CA 90001. The PEA will focus on areas planned for the redevelopment of the campus. LAUSD voluntarily conducts environmental reviews for construction and improvement projects at its existing schools.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the oversight of the LAUSD-OEHS. The investigation will consist of soil sampling at locations on campus where existing facilities will be demolished and new construction will take place. Soil will be analyzed for potential chemicals of concern. If necessary, protective measures will be performed prior to construction activities.

Field work is anticipated to be completed over the Winter Recess (i.e. December 15, 2018 through January 6, 2019). If additional sampling is necessary, this sampling will also take place when school is out of session. Field work is scheduled to be conducted between 7:00 am and 7:00 pm.

The results of the investigation will be submitted to LAUSD-OEHS in a report for review. The report will include an assessment of whether any of the chemicals of concern are present in soil at concentrations that would require further assessment, 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 a 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 Eric Longenecker, LAUSD-OEHS, Site Assessment Project Manager at (213) 241-4578 (email at eric.longenecker@lausd.net).

Distrito Escolar Unificado de Los Ángeles

Oficina de Salud y Seguridad Ambiental

AUSTIN BEUTNER
Superintendent of Schools

VIVIAN EKCHIAN
Deputy Superintendent

CARLOS A. TORRES
Director, Environmental Health and Safety

14 de diciembre de 2018

A: Vecinos, Estudiantes y Personal de la
McKinley Avenue Escuela Primaria

DESDE: Distrito Escolar Unificado de Los Ángeles
Oficina de Salud y Seguridad Ambiental

RESPECTO DE: Evaluación Ambiental
McKinley Avenue Escuela Primaria, Los Ángeles, California

El Distrito Escolar Unificado de Los Ángeles (LAUSD, por sus siglas en inglés) - Oficina de Salud y Seguridad Ambiental (OEHS, por sus siglas en inglés) desea proporcionarle un aviso previo para una Evaluación Ambiental Preliminar (PEA) que se llevará a cabo dentro de los límites de la Escuela Primaria McKinley Avenue, ubicada En el 7812 McKinley Avenue, Los Ángeles, California 90001. La PEA se enfocará en áreas planificadas para la reurbanización del campus. LAUSD lleva a cabo voluntariamente revisiones ambientales para proyectos de construcción y mejoras en escuelas existentes.

Un contratista licenciado, que trabaja en nombre del LAUSD, realizará la investigación ambiental bajo la supervisión del LAUSD-OEHS. La investigación consistirá en el muestreo de suelos en los lugares del campus donde se demolerán las estructuras existentes y nueva construcción tendrá lugar. El suelo se analizará para el potencial compuestos de preocupación. Si es necesario, medidas de protección se llevará a cabo antes de las actividades de construcción.

Se prevé que el trabajo de campo esté terminado durante el receso de invierno (i.e. diciembre 15, 2018 hasta enero 6, 2019). Si es necesario un mestreo adicional, este muestreo se llevará a cabo cuando la escuela este fuera de sesión. El trabajo de campo se realizará entre las 7:00 am y las 7:00 pm.

Los resultados de la investigación serán presentados a LAUSD-OEHS en un informe para su revisión. El informe incluirá una evaluación de si alguno de los compuestos de preocupación está presente en el suelo en concentraciones que requerirían una evaluación adicional, o si una acción de respuesta será necesaria antes de que el Sitio sea despejado para actividades de construcción. Cuando se complete el examen de la OEHS, la OEHS emitirá una determinación con respecto a la evaluación.

Si usted tiene alguna pregunta acerca de la investigación del medio ambiente próximo y otras actividades relacionadas para el proyecto propuesto, por favor, póngase en contacto con Eric Longenecker, OEHS del LAUSD, Sitio gestor de evaluación del Proyecto al (213) 241-4578 (correo electrónico a eric.longenecker@lausd.net).

M NLEY AVE UE SCHO -
7

Los Angeles Unified School District
Office of Environmental Health and Safety

AUSTIN BEUTNER
Superintendent of Schools

VIVIAN ekcman
Deputy Superintendent

CARLOS A. TORRES
Director, Environmental Health and Safety

December 14, 2018

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333 South Beaudry Avenue, 31st Floor, Los Angeles, CA 90017 • Telephone (213) 241-3199 • Fax (213) 241-6816
Our Mission: To ensure a safe and healthy environment for students to learn, teachers to teach, and employees to work.
Our Vision: To eliminate all environmental health and safety risks at schools.

Distrito Escolar Unificado de Los Ángeles
Oficina de Salud y Seguridad Ambiental

AUSTIN BEUTNER
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VIVIAN EKCMAN
Deputy Superintendent

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Director, Environmental Health and Safety

14 de diciembre de 2018

A: Vecinos, Estudiantes y Personal de la
McKinley Avenue Escuela Primaria

DESDE: Distrito Escolar Unificado de Los Ángeles
Oficina de Salud y Seguridad Ambiental

RESPECTO DE: Evaluación Ambiental
McKinley Avenue Escuela Primaria, Los Ángeles, California

El Distrito Escolar Unificado de Los Ángeles (LAUSD, por sus siglas en inglés) - Oficina de Salud y Seguridad Ambiental (OESH, por sus siglas en inglés) desea proporcionarle un aviso previo para una Evaluación Ambiental Preliminar (PEA) que se llevará a cabo dentro de los límites de la Escuela Primaria McKinley Avenue, ubicada En el 7812 McKinley Avenue, Los Ángeles, California 90001. La PEA se enfocará en áreas planificadas para la reurbanización del campus. LAUSD lleva a cabo voluntariamente revisiones ambientales para proyectos de construcción y mejoras en escuelas existentes.

Un contratista licenciado, que trabaja en nombre del LAUSD, realizará la investigación ambiental bajo la supervisión del LAUSD-OEHS. La investigación consistirá en el muestreo de suelos en los lugares del campus donde se demolerán las estructuras existentes y nueva construcción tendrá lugar. El suelo se analizará para el potencial componentes de preocupación. Si es necesario, medidas de protección se llevará a cabo antes de las actividades de construcción.

Se prevé que el trabajo de campo esté terminado durante el receso de invierno (i.e. diciembre 15, 2018 hasta enero 6, 2019). Si es necesario un muestreo adicional, este muestreo se llevará a cabo cuando la escuela este fuera de sesión. El trabajo de campo se realizará entre las 7:00 am y las 7:00 pm.

Los resultados de la investigación serán presentados a LAUSD-OEHS en un informe para su revisión. El informe incluirá una evaluación de si alguno de los compuestos de preocupación está presente en el suelo en concentraciones que requerirían una evaluación adicional, o si una acción de respuesta será necesaria antes de que el Sitio sea despejado para actividades de construcción. Cuando se complete el examen de la OEHS, la OEHS emitirá una determinación con respecto a la evaluación.

Si usted tiene alguna pregunta acerca de la investigación del medio ambiente próximo y otras actividades relacionadas para el proyecto propuesto, por favor, póngase en contacto con Eric Longenecker, OEHS del LAUSD, Sitio gestor de evaluación del Proyecto el (213) 241-4578 (correo electrónico a eric.longenecker@lausd.net).

333 South Beaudry Avenue, 31st Floor, Los Angeles, CA 90017 • Telephone (213) 241-3199 • Fax (213) 241-6816
The Office of Environmental Health and Safety is dedicated to providing a safe and healthy environment for the students and employees of the Los Angeles Unified School District.

NOTICE OF INTENT TO ADOPT A MITIGATED NEGATIVE DECLRATION AND NOTICE OF PUBLIC COMMENT PERIOD FOR PRELIMINARY ENVIRONMENTAL ASSESSMENT – EQUIVALENT

TO: Agencies, Organizations and Interested Parties

PROJECT TITLE: McKinley Avenue Elementary School Comprehensive Modernization Project

SUBJECT: Notice of Intent to Adopt a Mitigated Negative Declaration and Notice of Public Comment Period for Preliminary Environmental Assessment - Equivalent

Notice is hereby given that the Los Angeles Unified School District (LAUSD or District), as Lead Agency under the California Environmental Quality Act (CEQA) has prepared an Initial Study (IS) for the McKinley Avenue Elementary School (proposed Project), pursuant to CEQA (Public Resources Code [PRC], Division 13, Section 21000 et seq. [CEQA Statute] and the California Code of Regulations [CCR], Title 14, Division 6, Chapter 3, Section 15000 et seq. [CEQA Guidelines]). Based on the IS, LAUSD determined that the proposed Project would have no significant adverse impacts on the environment after the implementation of mitigation measures and a Mitigated Negative Declaration (MND) is appropriate. The District is providing public notice in compliance with Title 14, Chapter 3, Sections 15072 and 15073 of the California Code of Regulations, as amended. Notice is further given that a Preliminary Environmental Assessment - Equivalent (PEA-E) has been prepared for the Project and is available for review.

PROJECT LOCATION: The 4.2-acre McKinley Avenue Elementary School campus is located at 7812 McKinley Ave, City of Los Angeles.

PROJECT DESCRIPTION: The proposed Project is designed to address the most critical physical concerns of the buildings and grounds at the campus while upgrading, renovating, modernizing, and reconfiguring the campus to provide facilities that are safe, secure, and better aligned with the current instructional program. The Project includes demolishing four permanent buildings, removing existing relocatable buildings and storage containers, constructing new permanent buildings that provide adequate learning spaces and support areas, upgrading and replacing aging infrastructure, constructing new outdoor physical education spaces, and providing new landscaping and hardscaping. The proposed Project also consists of limited modernization of existing structures including limited barrier removal upgrades, Internet Protocol (IP) Convergence, exterior painting, and limited interior improvements.

In addition, LAUSD completed a PEA-E investigation for the proposed project to determine if the soil or soil vapor beneath the project area has been impacted with chemicals of concern. Based on the laboratory results of the collected samples the PEA-E investigation concluded that the site is suitable for the contemplated comprehensive modernization project without any further investigation or soil remediation. The campus is not on any of the lists enumerated under Section 65926.5 of the Government Code (Cortese List).

PUBLIC REVIEW PERIOD: The IS/MND (pursuant to California Code of Regulations, Title 14, Section 15073[a]) and PEA-E are available for public review and comment from March 13th, 2019 to April 11th, 2019.

RESPONSES AND COMMENTS: Please indicate a contact person for your agency or organization and send your comments to:

CEQA and PEA-E Questions and Comments
Los Angeles Unified School District
Office of Environmental Health and Safety
Attention: Christine Lan, Assistant CEQA Project Manager
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Email: CEQA-comments@lausd.net
Please include "McKinley ES Comp Mod" in the subject line

COMMENT MEETING: LAUSD will hold a public meeting on March 28th, 2019 at 6:00 PM at the McKinley Avenue Elementary School Auditorium located at 7812 McKinley Ave, City of Los Angeles. All agencies, organizations, and interested parties are encouraged to attend.

DOCUMENT AVAILABILITY: The IS/MND and PEA-E are available for public review during regular business hours at the locations listed below.

- LAUSD, Office of Environmental Health and Safety, 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017 (by appointment, call (213) 241-3199)
- McKinley Avenue Elementary School Library, 7812 McKinley Ave, Los Angeles, CA 90001
- Ascot Branch Library, 120 W Florence Ave, Los Angeles, CA 90003
- LAUSD Local District South Office, 1208 Magnolia Ave, Gardena, CA 90247
- LAUSD Office of Environmental Health and Safety Website:
    - CEQA Initial Study (http://achieve.lausd.net/ceqa)
    - PEA-E (http://achieve.lausd.net/siteassessment)

AVISO DE INTENCIÓN
DE ADOPTAR UNA DECLARACIÓN NEGATIVA CON MEDIDAS MITIGANTES
Y
AVISO DE PERÍODO PARA COMENTARIOS DEL PÚBLICO
SOBRE LA EVALUACIÓN AMBIENTAL PRELIMINAR – EQUIVALENTE

PARA: Agencias, Organizaciones y Partes Interesadas

TÍTULO DEL PROYECTO: Proyecto de Modernización General de la Escuela Primaria McKinley Avenue

ASUNTO: Aviso de Intención de Adoptar una Declaración Negativa con Medidas Mitigantes y Aviso de Período para Comentarios del Público sobre la Evaluación Ambiental Preliminar – Equivalente

Por el presente anuncio se comunica que el Distrito Escolar Unificado de Los Ángeles (LAUSD, por sus siglas en inglés, o el Distrito), como Agencia Principal bajo la Ley de Calidad Ambiental de California (CEQA, por sus siglas en inglés), ha preparado un Estudio Inicial (IS, por sus siglas en inglés) para la escuela primaria McKinley Avenue (el Proyecto propuesto), de conformidad con CEQA (Código de Recursos Públicos [PRC], Fracción 13, Artículo 21000 y siguientes [Estatuto CEQA] y el Código Reglamentario de California, Título 14, Fracción 6, Capítulo 3, Artículo 15000 y siguientes [Directrices CEQA]). En base al Estudio Inicial, el LAUSD determinó que el Proyecto propuesto no tendría consecuencias adversas importantes en el medio ambiente tras la ejecución de medidas mitigantes y por ende, es apropiada una Declaración Negativa con Medidas Mitigantes (MND, por sus siglas en inglés). El Distrito extiende aviso al público de conformidad con el Título 14, Capítulo 3, Artículos 15072 y 15073 del Código Reglamentario de California, en su forma enmendada. Asimismo se extiende el aviso que se ha preparado una Evaluación Ambiental Preliminar - Equivalente (PEA-E, por sus siglas en inglés) para el Proyecto y que dicha evaluación está disponible para revisión.

UBICACIÓN DEL PROYECTO: El plantel escolar de la Escuela Primaria McKinley Avenue abarca 4.2 acres y queda ubicado en el 7812 McKinley Ave., Ciudad de Los Ángeles.

DESCRIPCIÓN DEL PROYECTO: El Proyecto propuesto se ha diseñado con el fin de atender los menesteres físicos más críticos de los edificios e instalaciones del plantel escolar y a la vez actualizar, renovar, modernizar y volver a configurar el plantel para que cuente con infraestructuras seguras, adecuadas y una mejor adaptación con el programa educativo actual. El Proyecto incluye la demolición de cuatro edificios permanentes, la remoción de edificios reubicables y contenedores de almacenamiento existentes, la construcción de nuevos edificios permanentes que constituyan espacios adecuados para el aprendizaje y zonas de asistencia, la actualización y el reemplazo de infraestructura antigua, la construcción de nuevos espacios externos para la educación física y la instalación de elementos naturales verdes y superficies y objetos sólidos. El Proyecto propuesto también consiste de la modernización limitada de estructuras existentes, incluyendo mejoras mediante la remoción limitada de barreras, convergencia de Protocolo de Internet (IP, por sus siglas en inglés), pintura exterior y mejoras limitadas en interiores.

Además, el LAUSD completó una investigación de la PEA-E para el proyecto propuesto a fin de determinar si el suelo o los vapores del suelo por debajo de la zona del proyecto se han visto afectados por sustancias químicas objeto de preocupación. En base a los resultados de las pruebas de laboratorio realizadas a las muestras sustraídas, la investigación de la PEA-E llegó a la conclusión que el sitio es apto para el proyecto de modernización general previsto sin que sea necesario realizar más investigaciones o medidas de saneamiento de suelos. El plantel escolar no figura en ninguna de las listas enumeradas en el Artículo 65926.5 del Código de Gobierno (lista Cortese).

PERÍODO PARA REVISIÓN POR PARTE DEL PÚBLICO: El IS/MND (de conformidad con el Código Reglamentario de California, Título 14, Artículo 15073[a]) y la PEA-E están a disposición del público para su revisión y comentarios a partir del 13 de marzo de 2019 y hasta el 11 de abril de 2019.

RESPUESTAS Y COMENTARIOS: Por favor indique el nombre de la persona de contacto de su agencia u organización y envíe sus comentarios a:

Comentarios y preguntas acerca de la CEQA y la PEA-E
Distrito Escolar Unificado de Los Ángeles
Oficina de Seguridad y Salud Ambiental
Atención: Christine Lan, Asistente de Administrador(a) CEQA del Proyecto
333 South Beaudry Avenue, 21st Floor
Los Angeles, CA 90017
Correo electrónico: CEQA-comments@lausd.net
Por favor incluya "McKinley ES Comp Mod" en la línea correspondiente al asunto

REUNIÓN PARA APORTAR COMENTARIOS: El LAUSD celebrará una reunión pública el 28 de marzo de 2019, a las 6:00 PM en el Auditorio de la Escuela Primaria McKinley Avenue, ubicado en 7812 McKinley Ave., Ciudad de Los Ángeles. Se alienta a las agencias, organizaciones y partes interesadas a que asistan a dicha reunión.

DISPONIBILIDAD DEL DOCUMENTO: El IS/MND y el PEA-E están a disposición del público para su revisión durante el horario regular de atención en las siguientes ubicaciones:

- LAUSD, Oficina de Seguridad y Salud Ambiental, 333 South Beaudry Avenue, 21st Floor, Los Angeles, CA 90017 (con previa cita; llame at (213) 241-3199)
- Biblioteca de la Escuela Primaria McKinley Avenue, 7812 McKinley Ave., Los Angeles, CA 90001
- Biblioteca - Sucursal Ascot, 120 W. Florence Ave., Los Angeles, CA 90003
- Oficina Local Sur del LAUSD, 1208 Magnolia Ave., Gardena, CA 90247
- LAUSD Oficina de Seguridad y Salud Ambiental -- Sitio web:
  - CEQA Estudio Inicial (http://achieve.lausd.net/ceqa)
  - PEA-E (http://achieve.lausd.net/siteassessment)

LOS ANGELES UNIFIED SCHOOL DISTRICT
Facilities Services Division

McKinley Avenue Elementary School
COMPREHENSIVE MODERNIZATION PROJECT
PROJECT OVERVIEW, CEQA, AND PEA-E COMMUNITY MEETING

Thursday, March 28, 2019 at 6:00 p.m.

A G E N D A

I. Welcome and Introductions
Bienvenida y Presentaciones
- Ashley Mercado, FSD Community Relations

II. Comprehensive Modernization Project Overview and Design
Repaso General del Proyecto de Modernización Integral y Diseño
- Issam Dahdul, Senior Facilities Development Manager

III. California Environmental Quality Act (CEQA)
Ley de Calidad Medioambiental de California (CEQA)
- Will Meade, OEHS Environmental Planning Specialist
- Christine Lan, OEHS Assistant CEQA Project Manager

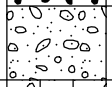
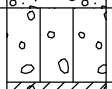
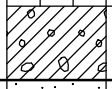
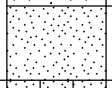
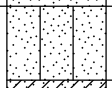
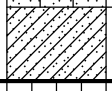
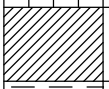
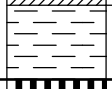
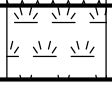
IV. Preliminary Environmental Assessment (PEA)
Estudio Ambiental Preliminar (PEA)
- Eric Longenecker, OEHS Site Assessment Project Manager

V. Questions & Comments
Preguntas y Comentarios

Boring logs

Appendix C

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE			GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE			SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

SAMPLE TYPE

STANDARD PENETRATION TEST
Split barrel sampler in accordance with ASTM D-1586-84 Standard Test Method

DRIVE SAMPLE 2.42" I.D. sampler.

DRIVE SAMPLE No recovery

BULK SAMPLE

GRAB SAMPLE

GROUNDWATER WHILE DRILLING

GROUNDWATER AFTER DRILLING

BORING LOG SYMBOLS

LABORATORY TESTING ABBREVIATIONS

TEST TYPE
(Results shown in Appendix B)

CLASSIFICATION

Plasticity	pi
Grain Size Analysis	ma
Passing No. 200 Sieve	wa
Sand Equivalent	se
Expansion Index	ei
Compaction Curve	max
Hydrometer	h

STRENGTH

Pocket Penetrometer	p
Direct Shear	ds
Direct Shear (single point)	ds*
Unconfined Compression	uc
Triaxial Compression	tx
Vane Shear	vs
Consolidation	c
Collapse Test	col
Resistance (R) Value	r
Chemical Analysis	ca
Electrical Resistivity	er

UNIFIED SOIL CLASSIFICATION AND KEY TO BORING LOG SYMBOLS

Converse Consultants

Project Name
McKinley Avenue Elementary School Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No.

Log of Boring No. PG

Dates Drilled: 12/26/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, minor silt, well sorted, slightly moist, brown.			0.0	
1						
					0.0	
2						
					0.0	
3		Representative of borings PG-1 through -21 and PG-24.				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **PG**

Log of Boring No. S11

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, minor coarse sand and gravel, moderately sorted, dry, brown.	■		0.0	
1						
		-no gravel, well sorted.	■		0.0	
2						
			■		0.0	
3		Representative of borings S11 -1 through -2.				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S11**

Log of Boring No. S12

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, well sorted, brown.			0.0	
1						
					0.0	
2						
					0.0	
3		Representative of borings S12 -1 through -2.				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S12**

Log of Boring No. S2-1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, trace silt, well sorted, dry, brown.			0.0	
1						
					0.0	
2						
					0.0	
3		Representative of borings S2 N2, N3 and E1.				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S2-1**

Log of Boring No. S2-2

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SILTY SAND (SM): very fine to fine-grained, trace angular gravel, moderately sorted, slightly moist, brown.	■		0.0	
1						
			■		0.0	
2						
			■		0.0	
3		Representative of borings S2 W1, W2 and N1.				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S2-2**

Log of Boring No. S3

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, with minor silt and some coarse sand, trace gravel, moderately sorted, dry, brown.	■		0.0	
1						
			■		0.0	
2						
			■		0.0	
3		Representative of borings S3 E1, E2, W1, S1, W2 and W3 .				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S3**

Log of Boring No. S4-1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, with some silt and minor gravel, dry, brown.			0.0	
1						
					0.0	
2						
					0.0	
3		Representative of borings S4 N2, S2, S3 and E1.				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S4-1**

Log of Boring No. S4-2

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SILTY SAND (SM): very fine-grained, moderately sorted, slightly moist, brown.	■		0.0	
1						
			■		0.0	
2						
			■		0.0	
3		Representative of borings S4 W1 and S1				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S4-2**

Log of Boring No. S5-1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, trace silt, moderately sorted, dry, brown.	■		0.0	
1						
			■		0.0	
2						
			■		0.0	
3		Representative of borings S5 E1, W2 and S2				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S5-1**

Log of Boring No. S5-2

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, trace silt, moderately sorted, dry, brown.	■		0.0	
1						
			■		0.0	
2						
			■		0.0	
3		Representative of borings S5 W1, S1 and N2				

Converse Consultants

Project Name
McKinley Avenue Elementary School Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S5-2**

Log of Boring No. S6

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, trace silt, moderately sorted, dry, grayish-brown.	■		0.0	
1						
			■		0.0	
2						
			■		0.0	
3		Representative of borings S6 E1 and W1				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S6**

Log of Boring No. S7E1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, minor silt and angular gravel, moderately well sorted, dry, brown.	■		0.0	
1						
		-no gravel, well sorted	■		0.0	
2						
			■		0.0	
3						

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S7E1**

Log of Boring No. S7N

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, minor silt, well sorted, dry, brown.			0.0	
1						
					0.0	
2						
					0.0	
3		Representative of borings S7N-1 through -5.				

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S7N**

Log of Boring No. S7S

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, minor silt, trace angular gravel, moderately well sorted, dry, brown.	■		0.0	
1						
			■		0.0	
2						
		-no gravel, well sorted	■		0.0	
3		Representative of borings S7S-1 through -5.				

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Project Name
McKinley Avenue Elementary School
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Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S7S**

Log of Boring No. S7W1

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		SAND (SP): very fine to fine-grained, minor silt and angular gravel, moderately well sorted, dry, brown.	■		0.0	
1						
		-no gravel, well sorted	■		0.0	
2						
			■		0.0	
3						

Converse Consultants

Project Name
McKinley Avenue Elementary School Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S7W1**

Log of Boring No. S9

Dates Drilled: 12/27/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.				
		GRAVELLY SAND (SW): very fine to fine-grained, moderately sorted, dry, brown.	■		0.0	
1						
			■		0.0	
2						
		SAND (SP): very fine to fine-grained, well sorted, dry, brown.	■		0.0	
3		Representative of borings S9 N1, N2, S1, E1, E2 and W1.				

Converse Consultants

Project Name
McKinley Avenue Elementary School Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **S9**

Log of Boring No. UST

Dates Drilled: 12/28/2018 Logged by: MVF Checked By: MVF

Equipment: GEOPROBE Driving Weight and Drop: N/A

Ground Surface Elevation (ft): N/A Depth to Water (ft): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES DRIVE	SAMPLES BULK	PID (PPM)	
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.				
1		**SAND (SP):** very fine-grained, with minor silt, moderately sorted, slightly moist, dark brown.	■		0.0	
2						
3						
4						
5						
6						
7						
8						
9						
10		-very fine to fine-grained, less silt, well sorted, brown	■		0.0	
11						
12						
13						
14						
15			■		0.0	

Converse Consultants

Project Name
McKinley Avenue Elementary School
Comprehensive Modernization Project
7812 McKinley Avenue
Los Angeles, CA

Project No. **18-41-233-02**

Figure No. **UST**

Laboratory Analytical Reports

Appendix D

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Number of Pages 12
Date Received 12/27/2018
Date Reported 01/07/2019

Job Number	Order Date	Client
95574	12/27/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 15 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110320

COMPANY: CONVERSE
PROJECT MANAGER: JOHN ZIEGLER
COMPANY ADDRESS: 717 S. MYRTLE AV. MONROVIA
PHONE: 626 930-1234
FAX:
PROJECT NAME: McKinley Comp. Mod.
PROJECT #: 18-41-233-02
SITE NAME AND ADDRESS: McKinley ES / 7812 McKinley Av. LA 90001
PO #:
AETL JOB No. 95574
Page 1 of 6

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 Arsenic	EPA 8310 PAHs	TEST INSTRUCTIONS & COMMENTS
1	PP-1-1.0	95574.01	12/26/18	7:40	SOIL	1 sleeve	ICE	X		
2	PP-1-2.0	95574.02		7:41						HOLD
3	PP-1-3.0	95574.03		7:42						
4	PP-2-0.5	95574.04		8:05				X		
5	PP-2-2.0	95574.05		8:06						HOLD
6	PP-2-3.0	95574.06		8:07						
7	PP-3-0.5	95574.07		8:18				X	X	
8	PP-3-2.0	95574.08		8:19						HOLD
9	PP-3-3.0	95574.09		8:20						
10	PP-4-0.5	95574.10		8:30				X		
11	PP-4-2.0	95574.11		8:31						HOLD
12	PP-4-3.0	95574.12		8:32						
13	PP-5-0.5	95574.13		8:45				X		
14	PP-5-2.0	95574.14		8:46						HOLD
15	PP-5-3.0	95574.15		8:47						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y / (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	JOHN ZIEGLER		Sarpis P
Date / Time:	12/27/18 1130		12/27/18 1230
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	Sarpis		AM
Date / Time:	12/27/18 1130		12/27/18 1230

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110321

AETL JOB No. 95574

Page 2 of 6

COMPANY: Converse
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 714 S. MYRTLE AV. MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: McKinley Comp Mod.
PROJECT #: 18-41-233-02
SITE NAME AND ADDRESS: McKinley ES, 7812 McKinley, LA CA 90001
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 A+	EPA 8310 PAHs	TEST INSTRUCTIONS & COMMENTS
1	PP-6-0.5	95574.16	12/26/18	9:00	SOIL	1 SLEEVE	ICE	X		
2	PP-6-2.0	95574.17		9:01						] HOLD
3	PP-6-3.0	95574.18		9:02						
4	PG-1-0.5	95574.19		10:00				X	X	
5	PG-1-2.0	95574.20		10:01						] HOLD
6	PG-1-3.0	95574.21		10:02						
7	PG-3-0.5	95574.22		10:10				X		
8	PG-3-2.0	95574.23		10:11						] HOLD
9	PG-3-3.0	95574.24		10:12						
10	PG-9-0.5	95574.25		10:20				X		
11	PG-9-2.0	95574.26		10:21						] HOLD
12	PG-9-3.0	95574.27		10:22						
13	PG-15-0.5	95574.28		10:30				X		
14	PG-15-2.0	95574.29		10:31						] HOLD
15	PG-15-3.0	95574.30		10:32						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: 15
CUSTODY SEALS Y / N / NA
RECEIVED IN GOOD COND. Y / N
PROPERLY COOLED Y / N / NA
SAMPLES INTACT Y / N / NA
SAMPLES ACCEPTED Y / N

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	JOHN ZIEGLER		
Date: / Time:	12/27/18 / 1130	/	12/27/18 / 1230
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:			
Date: / Time:	12/27/18 / 1130	/	12/27/18 / 1230

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110323

AETL JOB No. 95574

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE AV. MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: McKinley Comp-Mod
PROJECT #: 18-41-233-02
SITE NAME AND ADDRESS: McKinley ES, 7812 McKinley LA CA 90001
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 8310 PAHs	TEST INSTRUCTIONS & COMMENTS
1	PG-20-0.5	95574.31	12/26/18	11:10	SOIL	1 SLEEVE	ICE	X		
2	PG-20-2.0	95574.32	↓	11:11	↓	↓	↓			] HOLD
3	PG-20-3.0	95574.33	↓	11:12	↓	↓	↓			] HOLD
4	PG-21-0.5	95574.34	↓	11:20	↓	↓	↓	X		
5	PG-21-2.0	95574.35	↓	11:21	↓	↓	↓			] HOLD
6	PG-21-3.0	95574.36	↓	11:22	↓	↓	↓			] HOLD
7	PG-16-0.5	95574.37	↓	11:30	↓	↓	↓	X	X	
8	PG-16-2.0	95574.38	↓	11:31	↓	↓	↓			] HOLD
9	PG-16-3.0	95574.39	↓	11:32	↓	↓	↓			] HOLD
10	PG-10-0.5	95574.40	↓	11:40	↓	↓	↓	X		
11	PG-10-2.0	95574.41	↓	11:41	↓	↓	↓			] HOLD
12	PG-10-3.0	95574.42	↓	11:42	↓	↓	↓			] HOLD
13	PG-4-0.5	95574.43	↓	11:50	↓	↓	↓	X		
14	PG-4-2.0	95574.44	↓	11:51	↓	↓	↓			] HOLD
15	PG-4-3.0	95574.45	↓	11:52	↓	↓	↓			] HOLD

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED	(Y) N / NA
CUSTODY SEALS	Y (N) / NA	SAMPLES INTACT	(Y) N / NA
RECEIVED IN GOOD COND.	(Y) N	SAMPLES ACCEPTED	(Y) N

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) ________
☐ OTHER (PLEASE SPECIFY) ________

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: JOHN ZIEGLER	Printed Name:	Printed Name: Sarkis
Date: 12/27/18 Time: 1130	Date: Time:	Date: 12/27/18 Time: 1230

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature:
Printed Name: Sarkis	Printed Name:	Printed Name: AN-
Date: 12/27/18 Time: 1130	Date: Time:	Date: 12/27/18 Time: 1230

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Converse
Project Name:
AETL Job Number: 95574, 95575
Date Received: 12/27/18 Received by: AN
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.4°C, No 2: 3.2°C, No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): sleeves
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		Y	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Ordered By

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717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Job Number	Order Date	Client
95574	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 45 samples with the following specification on 12/27/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95574.01	PP-1-1.0	12/26/2018	Soil	1
95574.04	PP-2-0.5	12/26/2018	Soil	1
95574.10	PP-4-0.5	12/26/2018	Soil	1
95574.13	PP-5-0.5	12/26/2018	Soil	1
95574.16	PP-6-0.5	12/26/2018	Soil	1
95574.22	PG-3-0.5	12/26/2018	Soil	1
95574.25	PG-9-0.5	12/26/2018	Soil	1
95574.28	PG-15-0.5	12/26/2018	Soil	1
95574.31	PG-20-0.5	12/26/2018	Soil	1
95574.34	PG-21-0.5	12/26/2018	Soil	1
95574.40	PG-10-0.5	12/26/2018	Soil	1
95574.43	PG-4-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg

95574.02	PP-1-2.0	12/26/2018	Soil	1
95574.03	PP-1-3.0	12/26/2018	Soil	1
95574.05	PP-2-2.0	12/26/2018	Soil	1
95574.06	PP-2-3.0	12/26/2018	Soil	1
95574.08	PP-3-2.0	12/26/2018	Soil	1
95574.09	PP-3-3.0	12/26/2018	Soil	1
95574.11	PP-4-2.0	12/26/2018	Soil	1
95574.12	PP-4-3.0	12/26/2018	Soil	1
95574.14	PP-5-2.0	12/26/2018	Soil	1
95574.15	PP-5-3.0	12/26/2018	Soil	1
95574.17	PP-6-2.0	12/26/2018	Soil	1

Continued

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Converse Consultants
717 S. Myrtle Ave.
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Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Job Number	Order Date	Client
95574	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95574.18	PP-6-3.0	12/26/2018	Soil	1
95574.20	PG-1-2.0	12/26/2018	Soil	1
95574.21	PG-1-3.0	12/26/2018	Soil	1
95574.23	PG-3-2.0	12/26/2018	Soil	1
95574.24	PG-3-3.0	12/26/2018	Soil	1
95574.26	PG-9-2.0	12/26/2018	Soil	1
95574.27	PG-9-3.0	12/26/2018	Soil	1
95574.29	PG-15-2.0	12/26/2018	Soil	1
95574.30	PG-15-3.0	12/26/2018	Soil	1
95574.32	PG-20-2.0	12/26/2018	Soil	1
95574.33	PG-20-3.0	12/26/2018	Soil	1
95574.35	PG-21-2.0	12/26/2018	Soil	1
95574.36	PG-21-3.0	12/26/2018	Soil	1
95574.38	PG-16-2.0	12/26/2018	Soil	1
95574.39	PG-16-3.0	12/26/2018	Soil	1
95574.41	PG-10-2.0	12/26/2018	Soil	1
95574.42	PG-10-3.0	12/26/2018	Soil	1
95574.44	PG-4-2.0	12/26/2018	Soil	1
95574.45	PG-4-3.0	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/03/2019	2	Normal	--

95574.07	PP-3-0.5	12/26/2018	Soil	1
95574.19	PG-1-0.5	12/26/2018	Soil	1
95574.37	PG-16-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg
(8310)	01/03/2019	2	Normal	mg/Kg

Continued

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Project ID: 18-41-233-02 **Date Received 12/27/2018** **Date Reported 01/07/2019**

Job Number	Order Date	Client
95574	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C1

Our Lab I.D.			Method Blank	95574.01	95574.04	95574.07	95574.10
Client Sample I.D.				PP-1-1.0	PP-2-0.5	PP-3-0.5	PP-4-0.5
Date Sampled				12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared			12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	3.95	4.12	6.40	5.36

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Page: **3**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C1

Our Lab I.D.			95574.13	95574.16	95574.19	95574.22	95574.25
Client Sample I.D.			PP-5-0.5	PP-6-0.5	PG-1-0.5	PG-3-0.5	PG-9-0.5
Date Sampled			12/26/2018	12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared			12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	4.64	4.18	77.6	61.9	13.3

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Page: **4**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C1

Our Lab I.D.			95574.28				
Client Sample I.D.			PG-15-0.5				
Date Sampled			12/26/2018				
Date Prepared			12/28/2018				
Preparation Method			3050B				
Date Analyzed			12/31/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.17				

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Page: **5**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2

Our Lab I.D.			Method Blank	95574.31	95574.34	95574.37	95574.40
Client Sample I.D.				PG-20-0.5	PG-21-0.5	PG-16-0.5	PG-10-0.5
Date Sampled				12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared			12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	3.91	0.923	2.23	0.809

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2

Our Lab I.D.			95574.43				
Client Sample I.D.			PG-4-0.5				
Date Sampled			12/26/2018				
Date Prepared			12/28/2018				
Preparation Method			3050B				
Date Analyzed			12/31/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.31				

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Page: **7**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1

Our Lab I.D.			Method Blank	**95574.07**			
Client Sample I.D.				PP-3-0.5			
Date Sampled				**12/26/2018**			
Date Prepared			**01/03/2019**	**01/03/2019**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**01/03/2019**	**01/03/2019**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Benzo(a)anthracene	**0.010**	**0.020**	**ND**	**ND**			
Benzo(a)pyrene	**0.010**	**0.020**	**ND**	**0.0835**			
Benzo(b)fluoranthene	**0.010**	**0.020**	**ND**	**0.0562**			
Benzo(k)fluoranthene	**0.010**	**0.020**	**ND**	**0.0357**			
Chrysene	**0.010**	**0.020**	**ND**	**ND**			
Dibenzo(a,h)anthracene	**0.010**	**0.020**	**ND**	**ND**			
Indeno(1,2,3-cd)pyrene	**0.010**	**0.020**	**ND**	**ND**			
Acenaphthene	**0.010**	**0.020**	**ND**	**ND**			
Acenaphthylene	**0.010**	**0.020**	**ND**	**ND**			
Anthracene	**0.010**	**0.020**	**ND**	**ND**			
Benzo(g,h,i)perylene	**0.010**	**0.020**	**ND**	**ND**			
Fluoranthene	**0.010**	**0.020**	**ND**	**0.0338**			
Fluorene	**0.010**	**0.020**	**ND**	**ND**			
Naphthalene	**0.010**	**0.020**	**ND**	**ND**			
Phenanthrene	**0.010**	**0.020**	**ND**	**0.0123J**			
Pyrene	**0.010**	**0.020**	**ND**	**0.0360**			
2-Methylnaphthalene	**0.010**	**0.020**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**95574.07**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
p-Terphenyl-D14	**75-125**		**108**	**98.3**			

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Page: **8**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1

Our Lab I.D.			**95574.19**				
Client Sample I.D.			PG-1-0.5				
Date Sampled			**12/26/2018**				
Date Prepared			**01/03/2019**				
Preparation Method			**3550B**				
Date Analyzed			**01/03/2019**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Benzo(a)anthracene	**0.020**	**0.040**	**ND**				
Benzo(a)pyrene	**0.020**	**0.040**	**0.0311J**				
Benzo(b)fluoranthene	**0.020**	**0.040**	**ND**				
Benzo(k)fluoranthene	**0.020**	**0.040**	**ND**				
Chrysene	**0.020**	**0.040**	**0.0344J**				
Dibenzo(a,h)anthracene	**0.020**	**0.040**	**ND**				
Indeno(1,2,3-cd)pyrene	**0.020**	**0.040**	**ND**				
Acenaphthene	**0.020**	**0.040**	**ND**				
Acenaphthylene	**0.020**	**0.040**	**ND**				
Anthracene	**0.020**	**0.040**	**ND**				
Benzo(g,h,i)perylene	**0.020**	**0.040**	**ND**				
Fluoranthene	**0.020**	**0.040**	**ND**				
Fluorene	**0.020**	**0.040**	**ND**				
Naphthalene	**0.020**	**0.040**	**ND**				
Phenanthrene	**0.020**	**0.040**	**ND**				
Pyrene	**0.020**	**0.040**	**ND**				
2-Methylnaphthalene	**0.020**	**0.040**	**ND**				
Our Lab I.D.			**95574.19**				
Surrogates	**%Rec.Limit**		**% Rec.**				
p-Terphenyl-D14	**75-125**		**104**				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1

Our Lab I.D.			**95574.37**				
Client Sample I.D.			PG-16-0.5				
Date Sampled			**12/26/2018**				
Date Prepared			**01/03/2019**				
Preparation Method			**3550B**				
Date Analyzed			**01/03/2019**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Benzo(a)anthracene	**0.010**	**0.020**	**ND**				
Benzo(a)pyrene	**0.010**	**0.020**	**ND**				
Benzo(b)fluoranthene	**0.010**	**0.020**	**ND**				
Benzo(k)fluoranthene	**0.010**	**0.020**	**ND**				
Chrysene	**0.010**	**0.020**	**ND**				
Dibenzo(a,h)anthracene	**0.010**	**0.020**	**ND**				
Indeno(1,2,3-cd)pyrene	**0.010**	**0.020**	**ND**				
Acenaphthene	**0.010**	**0.020**	**ND**				
Acenaphthylene	**0.010**	**0.020**	**ND**				
Anthracene	**0.010**	**0.020**	**ND**				
Benzo(g,h,i)perylene	**0.010**	**0.020**	**ND**				
Fluoranthene	**0.010**	**0.020**	**ND**				
Fluorene	**0.010**	**0.020**	**ND**				
Naphthalene	**0.010**	**0.020**	**ND**				
Phenanthrene	**0.010**	**0.020**	**ND**				
Pyrene	**0.010**	**0.020**	**ND**				
2-Methylnaphthalene	**0.010**	**0.020**	**ND**				
Our Lab I.D.			**95574.37**				
Surrogates	**%Rec.Limit**		**% Rec.**				
p-Terphenyl-D14	**75-125**		**103**				

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Page: **10**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C1; Dup or Spiked Sample: 95574.01; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.95**	**10.0**	**14.6**	**106**	**10.0**	**14.5**	**105**	**<1**	**80-120**	**<15**

QC Batch No: 1228181C1; Dup or Spiked Sample: 95574.01; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**8.59**	**85.9**	**10.0**	**9.12**	**91.2**	**6.0**	**80-120**	**<15**	

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2; Dup or Spiked Sample: 95574.31; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.91**	**10.0**	**12.7**	**87.9**	**10.0**	**12.7**	**87.9**	**<1**	**80-120**	**<15**

QC Batch No: 1228181C2; Dup or Spiked Sample: 95574.31; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**9.05**	**90.5**	**10.0**	**8.41**	**84.1**	**7.3**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler
Page: **12**

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95574	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1; Dup or Spiked Sample: 95575.34; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0525	105	0.0500	0.0505	101	3.9	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0525	105	0.0500	0.0520	104	<1	75-125	<20
Naphthalene	0.00	0.500	0.446	89.2	0.500	0.438	87.6	1.8	75-125	<20
Surrogates										
p-Terphenyl-D14	0.00	0.400	0.428	107	0.400	0.412	103	3.8	75-125	<20

QC Batch No: 010319IB1; Dup or Spiked Sample: 95575.34; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzo(a)anthracene	0.0500	0.0545	109	0.0500	0.0525	105	3.7	75-125	<20	
Benzo(a)pyrene	0.0500	0.0530	106	0.0500	0.0510	102	3.8	75-125	<20	
Naphthalene	0.500	0.456	91.2	0.500	0.448	89.6	1.8	75-125	<20	
LCS										
Acenaphthene	0.500	0.500	100	0.500	0.477	95.4	4.7	75-125	<20	
Acenaphthylene	1.00	1.03	103	1.00	1.01	101	2.0	75-125	<20	
Anthracene	0.0500	0.0464	92.8	0.0500	0.0497	99.4	6.9	75-125	<20	
Benzo(b)fluoranthene	0.100	0.105	105	0.100	0.102	102	2.9	75-125	<20	
Benzo(g,h,i)perylene	0.100	0.102	102	0.100	0.100	100	2.0	75-125	<20	
Benzo(k)fluoranthene	0.0500	0.0520	104	0.0500	0.0500	100	3.9	75-125	<20	
Chrysene	0.0500	0.0515	103	0.0500	0.0497	99.4	3.6	75-125	<20	
Dibenzo(a,h)anthracene	0.100	0.101	101	0.100	0.0998	99.8	1.2	75-125	<20	
Fluoranthene	0.100	0.103	103	0.100	0.100	100	3.0	75-125	<20	
Fluorene	0.100	0.0995	99.5	0.100	0.0964	96.4	3.2	75-125	<20	
Indeno(1,2,3-cd)pyrene	0.0500	0.0550	110	0.0500	0.0545	109	<1	75-125	<20	
Phenanthrene	0.0500	0.0545	109	0.0500	0.0500	100	8.6	75-125	<20	
Pyrene	0.0500	0.0515	103	0.0500	0.0500	100	3.0	75-125	<20	
Surrogates										
p-Terphenyl-D14	0.400	0.424	106	0.400	0.416	104	1.9	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Number of Pages 11
Date Received 12/27/2018
Date Reported 01/07/2019

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 13 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110322

AETL JOB No. 95575

Page 4 of 6

COMPANY	CONVERSE
PROJECT MANAGER	JRZ
COMPANY ADDRESS	717 S. MYRTLE AV. MONROVIA 91016
PHONE / FAX	626 930-1234
PROJECT NAME	McKinley Comp Mod
PROJECT #	18-41-233-02
SITE NAME AND ADDRESS	McKinley ES, 7812 McKinley Av. LA CA 90001
PO #	

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 8310 PAHs	TEST INSTRUCTIONS & COMMENTS
1 PG-2-0.5	95575.01	12/26/18	12:10	SOIL	1 Sleeve	ICE	X		
2 PG-2-2.0	95575.02		12:11						HOLD
3 PG-2-3.0	95575.03		12:12						
4 PG-5-0.5	95575.04		12:30				X		
5 PG-5-2.0	95575.05		12:31						HOLD
6 PG-5-3.0	95575.06		12:32						
7 PG-11-0.5	95575.07		12:40				X	X	
8 PG-11-2.0	95575.08		12:41						HOLD
9 PG-11-3.0	95575.09		12:42						
10 PG-17-0.5	95575.10		1:00				X		
11 PG-17-2.0	95575.11		1:01				X		HOLD
12 PG-17-3.0	95575.12		1:02						
13 PG-18-0.5	95575.13		1:20				X		
14 PG-18-2.0	95575.14		1:27						HOLD
15 PG-18-3.0	95575.15		1:22						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y / N / NA)	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT (Y / N / NA)	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED (Y / N)	

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: JOHN ZIEGLER	Printed Name:	Printed Name: Jesus R
Date: 12/27/18 Time: 1130	Date: Time:	Date: 12/27/18 Time: 1230
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name:
Date: 12/27/18 Time: 1130	Date: Time:	Date: 12/27/18 Time: 1230

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110325

AETL JOB No. 95575

COMPANY | PROJECT MANAGER
COMPANY ADDRESS | PHONE / FAX
PROJECT NAME | PROJECT #
SITE NAME AND ADDRESS | PO #

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 (Pb)	EPA 8082 (PCBs)	EPA 8310 (PAHs)	TEST INSTRUCTIONS & COMMENTS
1	PG-12-0.5	95575.16	12/26/18	1:35	soil	1 sleeve	ICE	X			
2	PG-12-2.0	95575.17		1:36							HOLD
3	PG-12-3.0	95575.18		1:37							
4	PG-6-0.5	95575.19		1:50				X			
5	PG-6-2.0	95575.20		1:51							HOLD
6	PG-6-3.0	95575.21		1:52							
7	PG-7-0.5	95575.22		2:00				X			
8	PG-7-2.0	95575.23		2:01							HOLD
9	PG-7-3.0	95575.24		2:02							
10	PG-13-0.5	95575.25		2:15				X			
11	PG-13-2.0	95575.26		2:16							HOLD
12	PG-13-3.0	95575.27		2:17							
13	PG-19-0.5	95575.28		2:30				X	X	X	
14	PG-19-2.0	95575.29		2:31							HOLD
15	PG-19-3.0	95575.30		2:32							

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

[X] NORMAL [ ] RUSH
[ ] SAME DAY
[ ] NEXT DAY
[ ] 2 DAYS
[ ] 3 DAYS

DATA DELIVERABLE REQUIRED

[ ] HARD COPY
[ ] PDF
[ ] GEOTRACKER (GLOBAL ID) _____
[ ] OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: JOHN ZIEGLER	Printed Name:	Printed Name: Sampler
	Date: 12/27/18 Time: 1130	Date: Time:	Date: 12/27/18 Time: 1230
RECEIVED BY:	Signature:	Signature:	Signature:
	Printed Name: Sampler	Printed Name:	Printed Name: AETL
	Date: 12/27/18 Time: 1130	Date: Time:	Date: 12/27/18 Time: 1230

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CHAIN OF CUSTODY RECORD

110324

AETL JOB No. 95575

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE, MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: McKinley Comp. Mod
PROJECT #: 18-41233-0R
SITE NAME AND ADDRESS: McKinley ES, 7912 McKinley AV. LA CA 90001
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 831D PAHs	TEST INSTRUCTIONS & COMMENTS
1	P6-24-0.5	95575.31	12/26/18	2:45	SOIL	1 4oz jar	ICE	X		
2	P6-24-2.0	95575.32		2:46						HOLD
3	P6-24-3.0	95575.33		2:47						
4	P6-14-0.5	95575.34		2:55				X	X	
5	P6-14-2.0	95575.35		2:56						HOLD
6	P6-14-3.0	95575.36		2:56						
7	P6-8-0.5	95575.37		3:06				X		
8	P6-8-2.0	95575.38		3:07						HOLD
9	P6-8-3.0	95575.39	↓	3:08	↓	↓	↓			
10										
11										
12										
13										
14										
15										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	9	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	JOANN ZIEGLER		
Date: / Time:	12/27/18 1130	/	12/27/18 1230
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:			
Date: / Time:	12/27/18 1130	/	12/27/18 1230

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Converse

Project Name:

AETL Job Number: 95574, 95575

Date Received: 12/27/18 Received by: AS

Carrier: ☑ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☑ Cooler (2) ☐ Other (Specify): C

Inside temperature of shipping container No 1: 3.4°C, No 2: 3.2°C, No 3: ____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): sleeves

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 39 samples with the following specification on 12/27/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95575.01	PG-2-0.5	12/26/2018	Soil	1
95575.04	PG-5-0.5	12/26/2018	Soil	1
95575.10	PG-17-0.5	12/26/2018	Soil	1
95575.13	PG-18-0.5	12/26/2018	Soil	1
95575.16	PG-12-0.5	12/26/2018	Soil	1
95575.19	PG-6-0.5	12/26/2018	Soil	1
95575.22	PG-7-0.5	12/26/2018	Soil	1
95575.25	PG-13-0.5	12/26/2018	Soil	1
95575.31	PG-24-0.5	12/26/2018	Soil	1
95575.37	PG-8-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg

95575.02	PG-2-2.0	12/26/2018	Soil	1
95575.03	PG-2-3.0	12/26/2018	Soil	1
95575.05	PG-5-2.0	12/26/2018	Soil	1
95575.06	PG-5-3.0	12/26/2018	Soil	1
95575.08	PG-11-2.0	12/26/2018	Soil	1
95575.09	PG-11-3.0	12/26/2018	Soil	1
95575.11	PG-17-2.0	12/26/2018	Soil	1
95575.12	PG-17-3.0	12/26/2018	Soil	1
95575.14	PG-18-2.0	12/26/2018	Soil	1
95575.15	PG-18-3.0	12/26/2018	Soil	1
95575.17	PG-12-2.0	12/26/2018	Soil	1
95575.18	PG-12-3.0	12/26/2018	Soil	1
95575.20	PG-6-2.0	12/26/2018	Soil	1

Continued

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Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95575.21	PG-6-3.0	12/26/2018	Soil	1
95575.23	PG-7-2.0	12/26/2018	Soil	1
95575.24	PG-7-3.0	12/26/2018	Soil	1
95575.26	PG-13-2.0	12/26/2018	Soil	1
95575.27	PG-13-3.0	12/26/2018	Soil	1
95575.29	PG-19-2.0	12/26/2018	Soil	1
95575.30	PG-19-3.0	12/26/2018	Soil	1
95575.32	PG-24-2.0	12/26/2018	Soil	1
95575.33	PG-24-3.0	12/26/2018	Soil	1
95575.35	PG-14-2.0	12/26/2018	Soil	1
95575.36	PG-14-3.0	12/26/2018	Soil	1
95575.38	PG-8-2.0	12/26/2018	Soil	1
95575.39	PG-8-3.0	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/03/2019	2	Normal	--

95575.07	PG-11-0.5	12/26/2018	Soil	1
95575.34	PG-14-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg
(8310)	01/03/2019	2	Normal	mg/Kg

95575.28	PG-19-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg
(8082)	01/03/2019	2	Normal	ug/Kg
(8310)	01/03/2019	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **2**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2

Our Lab I.D.			Method Blank	95575.01	95575.04	95575.07	95575.10
Client Sample I.D.				PG-2-0.5	PG-5-0.5	PG-11-0.5	PG-17-0.5
Date Sampled				12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared			12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	10.6	3.34	0.916	5.23

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2

Our Lab I.D.			95575.13				
Client Sample I.D.			PG-18-0.5				
Date Sampled			12/26/2018				
Date Prepared			12/28/2018				
Preparation Method			3050B				
Date Analyzed			12/31/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	0.995				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C3

Our Lab I.D.			Method Blank	95575.16	95575.19	95575.22	95575.25
Client Sample I.D.				PG-12-0.5	PG-6-0.5	PG-7-0.5	PG-13-0.5
Date Sampled				12/26/2018	12/26/2018	12/26/2018	12/26/2018
Date Prepared			12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	2.58	2.87	15.6	52.8

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C3

Our Lab I.D.			95575.28	95575.31	95575.34	95575.37	
Client Sample I.D.			PG-19-0.5	PG-24-0.5	PG-14-0.5	PG-8-0.5	
Date Sampled			12/26/2018	12/26/2018	12/26/2018	12/26/2018	
Date Prepared			12/28/2018	12/28/2018	12/28/2018	12/28/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			12/31/2018	12/31/2018	12/31/2018	12/31/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	1.37	0.768	0.650	1.01	

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank	**95575.28**			
Client Sample I.D.				PG-19-0.5			
Date Sampled				**12/26/2018**			
Date Prepared			**01/02/2019**	**01/02/2019**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**01/02/2019**	**01/02/2019**			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1221 (PCB-1221)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1232 (PCB-1232)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1242 (PCB-1242)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1248 (PCB-1248)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1254 (PCB-1254)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1260 (PCB-1260)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1262 (PCB-1262)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1268 (PCB-1268)	**25.0**	**50.0**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**95575.28**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	**30-150**		**104**	**85.6**			
Tetrachloro-m-xylene	**30-150**		**118**	**90.0**			

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1

Our Lab I.D.			Method Blank	**95575.07**	**95575.28**	**95575.34**	
Client Sample I.D.				PG-11-0.5	PG-19-0.5	PG-14-0.5	
Date Sampled				**12/26/2018**	**12/26/2018**	**12/26/2018**	
Date Prepared			**01/03/2019**	**01/03/2019**	**01/03/2019**	**01/03/2019**	
Preparation Method			**3550B**	**3550B**	**3550B**	**3550B**	
Date Analyzed			**01/03/2019**	**01/03/2019**	**01/03/2019**	**01/03/2019**	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Benzo(a)anthracene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Benzo(a)pyrene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Benzo(b)fluoranthene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Benzo(k)fluoranthene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Chrysene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Dibenzo(a,h)anthracene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Indeno(1,2,3-cd)pyrene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Acenaphthene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Acenaphthylene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Anthracene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Benzo(g,h,i)perylene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Fluoranthene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Fluorene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Naphthalene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Phenanthrene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Pyrene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
2-Methylnaphthalene	**0.010**	**0.020**	**ND**	**ND**	**ND**	**ND**	
Our Lab I.D.			Method Blank	**95575.07**	**95575.28**	**95575.34**	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
p-Terphenyl-D14	**75-125**		**108**	**107**	**105**	**104**	

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C2; Dup or Spiked Sample: 95574.31; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.91**	**10.0**	**12.7**	**87.9**	**10.0**	**12.7**	**87.9**	**<1**	**80-120**	**<15**

QC Batch No: 1228181C2; Dup or Spiked Sample: 95574.31; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**9.05**	**90.5**	**10.0**	**8.41**	**84.1**	**7.3**	**80-120**	**<15**	

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 1228181C3; Dup or Spiked Sample: 95575.16; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**2.58**	**10.0**	**13.7**	**111**	**10.0**	**13.6**	**110**	**<1**	**80-120**	**<15**

QC Batch No: 1228181C3; Dup or Spiked Sample: 95575.16; LCS: Clean Sand; QC Prepared: 12/28/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**10.9**	**109**	**10.0**	**10.5**	**105**	**3.7**	**80-120**	**<15**	

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (8310), Polynuclear Aromatic Hydrocarbons (SW-846)

QC Batch No: 010319IB1; Dup or Spiked Sample: 95575.34; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzo(a)anthracene	0.00	0.0500	0.0525	105	0.0500	0.0505	101	3.9	75-125	<20
Benzo(a)pyrene	0.00	0.0500	0.0525	105	0.0500	0.0520	104	<1	75-125	<20
Naphthalene	0.00	0.500	0.446	89.2	0.500	0.438	87.6	1.8	75-125	<20
Surrogates										
p-Terphenyl-D14	0.00	0.400	0.428	107	0.400	0.412	103	3.8	75-125	<20

QC Batch No: 010319IB1; Dup or Spiked Sample: 95575.34; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzo(a)anthracene	0.0500	0.0545	109	0.0500	0.0525	105	3.7	75-125	<20	
Benzo(a)pyrene	0.0500	0.0530	106	0.0500	0.0510	102	3.8	75-125	<20	
Naphthalene	0.500	0.456	91.2	0.500	0.448	89.6	1.8	75-125	<20	
LCS										
Acenaphthene	0.500	0.500	100	0.500	0.477	95.4	4.7	75-125	<20	
Acenaphthylene	1.00	1.03	103	1.00	1.01	101	2.0	75-125	<20	
Anthracene	0.0500	0.0464	92.8	0.0500	0.0497	99.4	6.9	75-125	<20	
Benzo(b)fluoranthene	0.100	0.105	105	0.100	0.102	102	2.9	75-125	<20	
Benzo(g,h,i)perylene	0.100	0.102	102	0.100	0.100	100	2.0	75-125	<20	
Benzo(k)fluoranthene	0.0500	0.0520	104	0.0500	0.0500	100	3.9	75-125	<20	
Chrysene	0.0500	0.0515	103	0.0500	0.0497	99.4	3.6	75-125	<20	
Dibenzo(a,h)anthracene	0.100	0.101	101	0.100	0.0998	99.8	1.2	75-125	<20	
Fluoranthene	0.100	0.103	103	0.100	0.100	100	3.0	75-125	<20	
Fluorene	0.100	0.0995	99.5	0.100	0.0964	96.4	3.2	75-125	<20	
Indeno(1,2,3-cd)pyrene	0.0500	0.0550	110	0.0500	0.0545	109	<1	75-125	<20	
Phenanthrene	0.0500	0.0545	109	0.0500	0.0500	100	8.6	75-125	<20	
Pyrene	0.0500	0.0515	103	0.0500	0.0500	100	3.0	75-125	<20	
Surrogates										
p-Terphenyl-D14	0.400	0.424	106	0.400	0.416	104	1.9	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Date Received 12/27/2018
Date Reported 01/14/2019

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 2 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110322

AETL JOB No. 95575

Page 4 of 6

COMPANY: CONVERGE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 711 S. MYRTLE AV. MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: McKinley Comp Mod
PROJECT #: 18-41-233-02
SITE NAME AND ADDRESS: McKinley E3, 7812 McKinley Av. LA CA 90001
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 8310 PAHs	TEST INSTRUCTIONS & COMMENTS
1	PG-2-0.5	95575.01	12/26/18	12:10	SOIL	1 sleeve	ICE	X		*(6)
2	PG-2-2.0	95575.02		12:11						J HOLD
3	PG-2-3.0	95575.03		12:12						
4	PG-5-0.5	95575.04		12:30				X		
5	PG-5-2.0	95575.05		12:31						J HOLD
6	PG-5-3.0	95575.06		12:32						
7	PG-11-0.5	95575.07		12:40				X	X	
8	PG-11-2.0	95575.08		12:41						J HOLD
9	PG-11-3.0	95575.09		12:42						
10	PG-17-0.5	95575.10		1:00				X		
11	PG-17-2.0	95575.11		1:01				X		J HOLD
12	PG-17-3.0	95575.12		1:02						
13	PG-18-0.5	95575.13		1:20				X		
14	PG-18-2.0	95575.14		1:27						J HOLD
15	PG-18-3.0	95575.15		1:22						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	JOHN ZIEGLER		Sergio R
Date: / Time:	12/27/18 1139		12/27/18 1230
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:			
Printed Name:	Sergio		Art
Date: / Time:	12/27/18 1230		12/27/18 1230

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110325

AETL JOB No. 95575

COMPANY

PROJECT MANAGER

COMPANY ADDRESS

PHONE

FAX

PROJECT NAME

PROJECT #

SITE NAME AND ADDRESS

PO #

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS: *(2) 1/8/19 2DAYS

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA6020A7	EPA8082 PCBs	EPA 8310 PAHs	TEST INSTRUCTIONS & COMMENTS
1	PG-12-0.5	95575.16	12/26/18	1:35	SOIL	1 Sleeve	ICE	X			
2	PG-12-2.0	95575.17	↓	1:36	↓	↓	↓				] HOLD
3	PG-12-3.0	95575.18		1:37							
4	PG-6-0.5	95575.19		1:50				X			
5	PG-6-2.0	95575.20		1:51							] HOLD
6	PG-6-3.0	95575.21		1:52							
7	PG-7-0.5	95575.22		2:00				X			
8	PG-7-2.0	95575.23		2:07							] HOLD
9	PG-7-3.0	95575.24		2:02							
10	PG-13-0.5	95575.25		2:15				X			
11	PG-13-2.0	95575.26		2:16				*			] HOLD
12	PG-13-3.0	95575.27		2:17				*			
13	PG-19-0.5	95575.28		2:30				X	X	X	
14	PG-19-2.0	95575.29		2:31							] HOLD
15	PG-19-3.0	95575.30	↓	2:32	↓	↓	↓				

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) ____
☐ OTHER (PLEASE SPECIFY) ____

1.	2.	3.
RELINQUISHED BY SAMPLER: Signature: [signature] Printed Name: JOHN ZIEGLER Date: 12/27/18 Time: 1130	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: Sanjis V Date: 12/27/18 Time: 1230
RECEIVED BY: Signature: [signature] Printed Name: Sanjis Date: 12/27/18 Time: 1130	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: Printed Name: [signature] Date: 12/27/18 Time: 1230

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110324

AETL JOB No. 95575

COMPANY: CONVERGE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE, MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: Mckinley Comp. Mod
PROJECT #: 18-41-233-02
SITE NAME AND ADDRESS: Mckinley ES, 7812 Mckinley AV LA CA 90001
PO #:

ANALYSIS REQUESTED: EPA 6020 As; EPA 8310 PAHs

TEST INSTRUCTIONS & COMMENTS: *(0)

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 8310 PAHs									TEST INSTRUCTIONS & COMMENTS
1	PG-24-0.5	95575.31	12/26/18	2:45	SOIL	1 Sleeve	ICE	X										
2	PG-24-2.0	95575.32	↓	2:46	↓	↓	↓											] HOLD
3	PG-24-3.0	95575.33	↓	2:47	↓	↓	↓											] HOLD
4	PG-14-0.5	95575.34	↓	2:55	↓	↓	↓	X	X									
5	PG-14-2.0	95575.35	↓	2:56	↓	↓	↓											] HOLD
6	PG-14-3.0	95575.36	↓	2:56	↓	↓	↓											] HOLD
7	PG-8-0.5	95575.37	↓	3:06	↓	↓	↓	X										
8	PG-8-2.0	95575.38	↓	3:07	↓	↓	↓											] HOLD
9	PG-8-3.0	95575.39	↓	3:08	↓	↓	↓											] HOLD
10																		
11																		
12																		
13																		
14																		
15																		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	9	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME: ☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED: ☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) ____ ☐ OTHER (PLEASE SPECIFY) ____

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature] Printed Name: JOHN ZIEGLER Date: 12/27/18 Time: 1130	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: Sergio Date: 12/27/18 Time: 1230
RECEIVED BY	RECEIVED BY: Signature: [signature] Printed Name: Sergio Date: 12/27/18 Time: 1130	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: [signature] Printed Name: AJ Date: 12/27/18 Time: 1230

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

JIM LIN

From: John R. Ziegler [JZiegler@ConverseConsultants.com]
Sent: Tuesday, January 8, 2019 12:01 PM
To: JIM LIN
Subject: RE: Summary Table & PDF results of analysis of samples from project "McKinley Elementary School, Los Angeles, CA"

Jim,

Can you please run the following samples for arsenic:

PG-1-2.0 (95574.20)
PG-1-3.0 (95574.21)
PG-3-2.0 (95574.22)
PG-3-3.0 (95574.23)
PG-13-2.0 (95575-26)
PG-13-3.0 (95575-27)

Also please run an STLC for PG-1-0.5 (95574.19) for STLC for arsenic.

I need the results no later than Thursday afternoon January 10, 2019.

Thanks.

John Ziegler
Senior Professional
CONVERSE CONSULTANTS
717 SOUTH MYRTLE AVENUE
MONROVIA CA 91016
(626) 930-1234 (Office)
(626) 807-3426 (Cell)

jziegler@converseconsultants.com

From: JIM LIN <jiml@aetlab.com>
Sent: Tuesday, January 8, 2019 9:52 AM
To: John R. Ziegler <JZiegler@ConverseConsultants.com>
Subject: Summary Table & PDF results of analysis of samples from project "McKinley Elementary School, Los Angeles, CA"

Dear John,

Herewith please find Summary Table & PDF results of analysis of samples from project "McKinley Elementary School, 7812 S McKinley Ave, Los Angeles, CA"

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 39 samples with the following specification on 12/27/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95575.01	PG-2-0.5	12/26/2018	Soil	1
95575.04	PG-5-0.5	12/26/2018	Soil	1
95575.10	PG-17-0.5	12/26/2018	Soil	1
95575.13	PG-18-0.5	12/26/2018	Soil	1
95575.16	PG-12-0.5	12/26/2018	Soil	1
95575.19	PG-6-0.5	12/26/2018	Soil	1
95575.22	PG-7-0.5	12/26/2018	Soil	1
95575.25	PG-13-0.5	12/26/2018	Soil	1
95575.26	PG-13-2.0	12/26/2018	Soil	1
95575.27	PG-13-3.0	12/26/2018	Soil	1
95575.31	PG-24-0.5	12/26/2018	Soil	1
95575.37	PG-8-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg

95575.02	PG-2-2.0	12/26/2018	Soil	1
95575.03	PG-2-3.0	12/26/2018	Soil	1
95575.05	PG-5-2.0	12/26/2018	Soil	1
95575.06	PG-5-3.0	12/26/2018	Soil	1
95575.08	PG-11-2.0	12/26/2018	Soil	1
95575.09	PG-11-3.0	12/26/2018	Soil	1
95575.11	PG-17-2.0	12/26/2018	Soil	1
95575.12	PG-17-3.0	12/26/2018	Soil	1
95575.14	PG-18-2.0	12/26/2018	Soil	1
95575.15	PG-18-3.0	12/26/2018	Soil	1
95575.17	PG-12-2.0	12/26/2018	Soil	1

Continued

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Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/27/2018
Date Reported 01/07/2019

Job Number	Order Date	Client
95575	12/27/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95575.18	PG-12-3.0	12/26/2018	Soil	1
95575.20	PG-6-2.0	12/26/2018	Soil	1
95575.21	PG-6-3.0	12/26/2018	Soil	1
95575.23	PG-7-2.0	12/26/2018	Soil	1
95575.24	PG-7-3.0	12/26/2018	Soil	1
95575.29	PG-19-2.0	12/26/2018	Soil	1
95575.30	PG-19-3.0	12/26/2018	Soil	1
95575.32	PG-24-2.0	12/26/2018	Soil	1
95575.33	PG-24-3.0	12/26/2018	Soil	1
95575.35	PG-14-2.0	12/26/2018	Soil	1
95575.36	PG-14-3.0	12/26/2018	Soil	1
95575.38	PG-8-2.0	12/26/2018	Soil	1
95575.39	PG-8-3.0	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/03/2019	2	Normal	--

95575.07	PG-11-0.5	12/26/2018	Soil	1
95575.34	PG-14-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg
(8310)	01/03/2019	2	Normal	mg/Kg

95575.28	PG-19-0.5	12/26/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/03/2019	2	Normal	mg/Kg
(8082)	01/03/2019	2	Normal	ug/Kg
(8310)	01/03/2019	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **2**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0109191C2

Our Lab I.D.			Method Blank	95575.26	95575.27		
Client Sample I.D.				PG-13-2.0	PG-13-3.0		
Date Sampled				12/26/2018	12/26/2018		
Date Prepared			01/09/2019	01/09/2019	01/09/2019		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			01/10/2019	01/10/2019	01/10/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	ND	8.34	0.695		

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200
Attn: John Ziegler
Page: **3**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95575	12/27/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0109191C2; Dup or Spiked Sample: 95574.20; LCS: Clean Sand; QC Prepared: 01/09/2019; QC Analyzed: 01/10/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**1.07**	**10.0**	**11.2**	**101**	**10.0**	**10.6**	**95.3**	**5.8**	**80-120**	**<15**

QC Batch No: 0109191C2; Dup or Spiked Sample: 95574.20; LCS: Clean Sand; QC Prepared: 01/09/2019; QC Analyzed: 01/10/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**10.6**	**106**	**10.0**	**9.93**	**99.3**	**6.5**	**80-120**	**<15**	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Number of Pages	**14**
Date Received	**12/28/2018**
Date Reported	**01/04/2019**

Job Number	Order Date	Client
95590	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Enclosed please find results of analyses of 10 discrete and 3 composite soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110332

AETL JOB No. 95590

Page 1 of 3

COMPANY	CONVERSE	PROJECT MANAGER	JPZ
COMPANY ADDRESS	717 S. MYRTLE, MONROVIA 91016	PHONE / FAX	626 930-1234
PROJECT NAME	McKinley Comp Mod	PROJECT #	19-A1-233-02
SITE NAME AND ADDRESS	McKinley ES 7812 S. McKinley LA CA 90001	PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6010 Pb	EPA 9087 PCBs	TEST INSTRUCTIONS & COMMENTS
								ANALYSIS REQUESTED			HOLD 2.0 & 3.0 FOOT SAMPLES
1	S5-S2-0.5	95590.01	10/27/18	10:50	SOIL	1 JAR		X	X		COMP GROUP 5.1
2	S5-S2-2.0	95590.02	↓	10:51		↓					
3	S5-S2-3.0	95590.03	↓	10:52		↓					
4	S5-S1-0.5	95590.04	10/28/18	11:15		1 JAR		X	X	X	COMP GROUP 4.2
5	S5-S1-2.0	95590.05	↓	11:16		↓					
6	S5-S1-3.0	95590.06	↓	11:17		↓					
7	S4-E1-0.2	95590.07	10/27/18	12:40				X	X		COMP GROUP 4.2
8	S4-E1-2.0	95590.08	12/27/18	12:41							
9	S4-E1-3.0	95590.09	12/27/18	12:42							
10	S4-S3-0.5	95590.10	10/27/18	12:43		1 sleeve					Comp group 4.2
11	S4-S3-2.0	95590.11	↓	12:44		↓		X	X		
12	S4-S3-3.0	95590.12	↓	12:45		↓					
13	~~S5-S1-0.5~~		~~10/28/18~~	~~11:15~~		~~1 JAR~~					4.2
14	~~S5-S1-2.0~~		↓	~~11:16~~		↓					
15	~~S5-S1-3.0~~		↓	~~11:17~~		↓					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	11	PROPERLY COOLED (Y) / N / NA	(Y)
CUSTODY SEALS Y / N / NA	(N)	SAMPLES INTACT (Y) / N / NA	(Y)
RECEIVED IN GOOD COND. (Y) / N	(Y)	SAMPLES ACCEPTED (Y) / N	(Y)

TURN AROUND TIME

- [ ] NORMAL
- [x] RUSH (10/28)
- [ ] SAME DAY
- [ ] NEXT DAY
- [ ] 2 DAYS
- [x] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [ ] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	RELINQUISHED BY:
Signature:		Signature:	Signature:
Printed Name:	JOHN ZIEGLER	Printed Name:	Printed Name:
Date:	12/28/18	Date:	Date:
Time:	11:50	Time:	Time:
RECEIVED BY:		RECEIVED BY:	RECEIVED BY LABORATORY: AETL
Signature:		Signature:	Signature:
Printed Name:		Printed Name:	Printed Name:
Date:		Date:	Date: 12/28/18
Time:		Time:	Time: 1650

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110331

AETL JOB No. 95590

COMPANY	CONVERSE
PROJECT MANAGER	JZZ
COMPANY ADDRESS	717 S. MYRTLE AV. MONROVIA 91016
PHONE	626 930-1234
FAX	
PROJECT NAME	McKinley ES COMP. MOD
PROJECT #	18-41-233-02
SITE NAME AND ADDRESS	McKinley ES, 7812 McKinley, LA CA 90001
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6010 Pb	EPA 8082 PCBs	TEST INSTRUCTIONS & COMMENTS
1	S6-E1-0.5	95590.13	12/27/18	1:30	SOIL	1 sleeve		X	X	X	HOLD 2.0 & 3.0 FOOT SAMPLES
2	S6-E1-2.0	95590.14		1:31							
3	S6-E1-3.0	95590.15		1:32							
4	S6-W1-0.5	95590.16		1:05				X	X		COMPGROUP 5.1
5	S6-W1-2.0	95590.17		1:06							
6	S6-W1-3.0	95590.18		1:07							
7	S5-E1-0.5	95590.19		1:01				X	X		Comp group 5.1
8	S5-E1-2.0	95590.20		1:02							
9	S5-E1-3.0	95590.21		1:03							
10	S5-W1-0.5	95590.22	12/28/18	11:40		1 JAR		X	X		Compgroup 5.2
11	S5 W1-2.0	95590.23		11:41							
12	S5 W1-3.0	95590.24		11:42							
13	S5-W2-0.5	95590.25	12/27/18	12:30		1 Sleeve		X	X		Compgroup 4.2
14	S5-W2-2.0	95590.26		12:32							
15	S5-W2-3.0	95590.27		12:31							

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / N / (NA)		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

- [x] NORMAL
- [x] RUSH (ECBs)
- [ ] SAME DAY
- [ ] NEXT DAY
- [ ] ~~2 DAYS~~
- [ ] 3 DAYS

DATA DELIVERABLE REQUIRED

- [ ] HARD COPY
- [ ] PDF
- [ ] GEOTRACKER (GLOBAL ID) _____
- [ ] OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY: SAMPLER:		RELINQUISHED BY:	RELINQUISHED BY:
Signature:		Signature:	Signature:
Printed Name:	JOHN ZIEGLER	Printed Name:	Printed Name:
Date:	12/28/18	Date:	Date:
Time:	4:50	Time:	Time:
RECEIVED BY:		RECEIVED BY:	RECEIVED BY LABORATORY: AETL
Signature:		Signature:	Signature:
Printed Name:		Printed Name:	Printed Name:
Date:		Date:	Date: 12/28/18
Time:		Time:	Time: 1650

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110335

AETL JOB No. 95590

Page 3 of 3

COMPANY	CONVERSE
PROJECT MANAGER	JRZ
COMPANY ADDRESS	7175. MYRTLE AV MONROVIA 91016
PHONE	626930-1234
FAX	
PROJECT NAME	McKinley Comp Mod
PROJECT #	18-41-233-02
SITE NAME AND ADDRESS	McKinley ES 7912 McKinley Av. LA CA 90001
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SS-N2-0.5	95590 28	12-28-18	10:23	SOIL	1 JAR	
2	SS-N2-2.0	95590 -29	↓	10:24	↓	↓	
3	SS-N2-3.0	95590. 30	↓	10:25	↓	↓	
4							
5							
6	COMP 4.2-0.5	95590 -31					
7	COMP 5.1-0.5	95590 -32					
8	COMP 5.2-0.5	95590 33					
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

	EPA 6020 As	EPA 6010 Pb	EPA 8082 PCBs	EPA 8081 OCPs
1	X	X		
2				
3				
4				
5				
6				X
7				X
8				X
9				
10				
11				
12				
13				
14				
15				

TEST INSTRUCTIONS & COMMENTS

HOLD 2.0 & 3.0 FOOT SAMPLES

Comp group 5.2

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	6	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ ~~2 DAYS~~
☐ 3 DAYS
OCPs

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	JOHN ZEGLER		
Printed Name:			
Date:	12/28/18 Time: 4:50	Date: Time:	Date: Time:
	RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** AETL 3.
Signature:			
Printed Name:			
Date:	Time:	Date: Time:	Date: 12/28/18 Time: 1650

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Converse
Project Name:
AETL Job Number: 95590, 95591
Date Received: 12/28/18 Received by: AN
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°C, No 2: 3.3, No 3: ____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): sleeves
How are samples preserved: ☐ None, ☐ Ice, ☒ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		N	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Job Number	Order Date	Client
95590	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 33 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95590.01	S5-S2-0.5	10/27/2018	Soil	1
95590.07	S4-E1-0.2	12/27/2018	Soil	1
95590.11	S4-S3-2.0	12/27/2018	Soil	1
95590.16	S6-W1-0.5	12/27/2018	Soil	1
95590.19	S5-E1-0.5	12/27/2018	Soil	1
95590.22	S5-W1-0.5	12/28/2018	Soil	1
95590.25	S5-W2-0.5	12/27/2018	Soil	1
95590.28	S5-N2-0.5	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg

95590.02	S5-S2-2.0	10/27/2018	Soil	1
95590.03	S5-S2-3.0	10/27/2018	Soil	1
95590.05	S5-S1-2.0	10/28/2018	Soil	1
95590.06	S5-S1-3.0	10/28/2018	Soil	1
95590.08	S4-E1-2.0	12/27/2018	Soil	1
95590.09	S4-E1-3.0	12/27/2018	Soil	1
95590.10	S4-S3-0.5	12/27/2018	Soil	1
95590.12	S4-S3-3.0	12/27/2018	Soil	1
95590.14	S6-E1-2.0	12/27/2018	Soil	1
95590.15	S6-E1-3.0	12/27/2018	Soil	1
95590.17	S6-W1-2.0	12/27/2018	Soil	1
95590.18	S6-W1-3.0	12/27/2018	Soil	1
95590.20	S5-E1-2.0	12/27/2018	Soil	1
95590.21	S5-E1-3.0	12/27/2018	Soil	1

Continued

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Ordered By

Converse Consultants **717 S. Myrtle Ave.** **Monrovia, CA 91016-**	**Project ID: 18-41-233-02** **Date Received 12/28/2018** **Date Reported 01/04/2019**
Telephone: (626)930-1200 **Attention: John Ziegler**	

Job Number	Order Date	Client
95590	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95590.23	S5-W1-2.0	12/28/2018	Soil	1
95590.24	S5-W1-3.0	12/28/2018	Soil	1
95590.26	S5-W2-2.0	12/27/2018	Soil	1
95590.27	S5-W2-3.0	12/27/2018	Soil	1
95590.29	S5-N2-2.0	12/28/2018	Soil	1
95590.30	S5-N2-3.0	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/04/2019	2	Normal	--

95590.04	S5-S1-0.5	10/28/2018	Soil	1
95590.13	S6-E1-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg
(8082)	01/04/2019	2	Normal	ug/Kg

95590.31	COMP4.2-0.5	12/27/2018	Soil	1
95590.32	COMP5.1-0.5	12/27/2018	Soil	1
95590.33	COMP5.2-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	01/03/2019	4	Rush	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Page: **2**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			Method Blank	95590.31	95590.32	95590.33	
Client Sample I.D.				COMP4.2-0.5	COMP5.1-0.5	COMP5.2-0.5	
Date Sampled				12/27/2018	12/27/2018	12/27/2018	
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			01/02/2019	01/02/2019	01/02/2019	01/02/2019	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Aldrin	1.0	2.0	ND	ND	ND	ND	
Chlordane (Total)	1.0	2.0	ND	ND	ND	ND	
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	
Dieldrin	1.0	2.0	ND	ND	ND	ND	
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	
Endrin	1.0	2.0	ND	ND	ND	ND	
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	
Endrin ketone	1.0	2.0	ND	ND	ND	ND	
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	
Heptachlor	1.0	2.0	ND	ND	ND	ND	
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	
Methoxychlor	5.0	10.0	ND	ND	ND	ND	
Toxaphene	25.0	50.0	ND	ND	ND	ND	

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ANALYTICAL RESULTS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	95590.31	95590.32	95590.33	
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150		108	76.0	86.0	82.8	
Tetrachloro-m-xylene	30-150		138	109	116	102	

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Page: **4**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank	95590.04	95590.13		
Client Sample I.D.				S5-S1-0.5	S6-E1-0.5		
Date Sampled				10/28/2018	12/27/2018		
Date Prepared			01/02/2019	01/02/2019	01/02/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			01/02/2019	01/02/2019	01/02/2019		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aroclor-1016 (PCB-1016)	25.0	50.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	25.0	50.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	25.0	50.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	25.0	50.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	25.0	50.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	25.0	50.0	ND	ND	ND		
Aroclor-1260 (PCB-1260)	25.0	50.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	25.0	50.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	25.0	50.0	ND	ND	ND		
Our Lab I.D.			Method Blank	95590.04	95590.13		
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**		
Decachlorobiphenyl	30-150		104	99.2	91.2		
Tetrachloro-m-xylene	30-150		118	101	96.8		

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
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Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Page: **5**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C9

Our Lab I.D.			Method Blank	95590.01	95590.04	95590.07	95590.11
Client Sample I.D.				S5-S2-0.5	S5-S1-0.5	S4-E1-0.2	S4-S3-2.0
Date Sampled				10/27/2018	10/28/2018	12/27/2018	12/27/2018
Date Prepared			01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	8.32	5.77	ND	ND

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Page: **6**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C9

Our Lab I.D.			95590.13	95590.16	95590.19	95590.22	95590.25
Client Sample I.D.			S6-E1-0.5	S6-W1-0.5	S5-E1-0.5	S5-W1-0.5	S5-W2-0.5
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/28/2018	12/27/2018
Date Prepared			01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	2.88J	9.50	ND	7.92

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Page: **7**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C9

Our Lab I.D.			95590.28				
Client Sample I.D.			S5-N2-0.5				
Date Sampled			12/28/2018				
Date Prepared			01/02/2018				
Preparation Method			3050B				
Date Analyzed			01/03/2019				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	5.00				

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Los Angeles, CA 90001

Page: **8**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C1

Our Lab I.D.			Method Blank	95590.01	95590.04	95590.07	95590.11
Client Sample I.D.				S5-S2-0.5	S5-S1-0.5	S4-E1-0.2	S4-S3-2.0
Date Sampled				10/27/2018	10/28/2018	12/27/2018	12/27/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	1.30	1.04	1.00	0.936

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Los Angeles, CA 90001

Page: **9**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C1

Our Lab I.D.			95590.13	95590.16	95590.19	95590.22	95590.25
Client Sample I.D.			S6-E1-0.5	S6-W1-0.5	S5-E1-0.5	S5-W1-0.5	S5-W2-0.5
Date Sampled			12/27/2018	12/27/2018	12/27/2018	12/28/2018	12/27/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	1.09	0.824	0.978	0.983	1.50

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Los Angeles, CA 90001

Page: **10**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C1

Our Lab I.D.			95590.28				
Client Sample I.D.			S5-N2-0.5				
Date Sampled			12/28/2018				
Date Prepared			01/02/2019				
Preparation Method			3050B				
Date Analyzed			01/03/2019				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	0.760				

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QUALITY CONTROL RESULTS

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Site

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Los Angeles, CA 90001

Page: **11**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C9; Dup or Spiked Sample: 95590.01; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**8.32**	**50.0**	**45.9**	**75.2**	**50.0**	**46.2**	**75.8**	**<1**	**75-125**	**<15**

QC Batch No: 0102182C9; Dup or Spiked Sample: 95590.01; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**50.0**	**48.9**	**97.8**	**50.0**	**49.3**	**98.6**	**<1**	**75-125**	**<15**	

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Site

McKinley ES
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Los Angeles, CA 90001

Page: **12**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C1; Dup or Spiked Sample: 95590.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**1.30**	**10.0**	**10.8**	**95.0**	**10.0**	**11.4**	**101**	**6.12**	**80-120**	**<15**

QC Batch No: 0102191C1; Dup or Spiked Sample: 95590.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**9.87**	**98.7**	**10.0**	**9.64**	**96.4**	**2.36**	**80-120**	**<15**	

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Los Angeles, CA 90001

Page: **13**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.4	92.0	20.0	18.5	92.5	<1	40-150	<40
4,4'-DDT (DDT)	1.96	50.0	42.1	80.3	50.0	44.7	85.5	6.3	40-150	<40
Dieldrin	0.276	50.0	47.7	94.8	50.0	48.1	95.6	<1	40-150	<40
Endrin	0.00	50.0	65.0	130	50.0	65.5	131	<1	40-150	<40
Heptachlor	0.00	20.0	19.1	95.5	20.0	19.4	97.0	1.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.4	97.0	20.0	18.6	93.0	4.2	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	25.0	100	25.0	27.5	110	9.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	34.3	137	25.0	35.3	141	2.9	30-150	<40

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	14.9	74.5	20.0	16.1	80.5	7.7	50-150	<40	
4,4'-DDT (DDT)	50.0	29.9	59.8	50.0	30.0	60.0	<1	50-150	<40	
Dieldrin	50.0	39.7	79.4	50.0	42.4	84.8	6.6	50-150	<40	
Endrin	50.0	51.5	103	50.0	53.5	107	3.8	50-150	<40	
Heptachlor	20.0	15.7	78.5	20.0	16.3	81.5	3.8	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.7	83.5	20.0	17.3	86.5	3.5	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	20.7	82.8	25.0	20.6	82.4	<1	30-150	<40	
Tetrachloro-m-xylene	25.0	29.0	116	25.0	30.0	120	3.4	30-150	<40	

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Site

McKinley ES
7812 S. McKinley
Los Angeles, CA 90001

Page: **14**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95590	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

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Telephone: (626)930-1200
Attention: John Ziegler

Number of Pages	**23**
Date Received	**12/28/2018**
Date Reported	**01/04/2019**

Job Number	Order Date	Client
95591	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 17 discrete and 5 composite soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110336

AETL JOB No. 95591 Page 1 of 4

COMPANY	CONVERSE
PROJECT MANAGER	JDZ
COMPANY ADDRESS	717 S. MYRTLE, MONROVIA 91016
PHONE	626 930-1234
FAX	
PROJECT NAME	McKinley Comp Mod
PROJECT #	18-41-233-02
SITE NAME AND ADDRESS	McKinley ES, 7812 McKinley Av. LA CA 90001
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 8020 AS	EPA 6010 PB	EPA 8082 PCBs	TEST INSTRUCTIONS & COMMENTS
1	S2-N1-0.5	95591.01	12/28/18	11:45	SOIL	1 JAR		X	X		HOLD 2.0 & 3.0 FOOT SAMPLES; COMP GROUP 2.1
2	S2-N1-2.0	95591.02		11:46							
3	S2-N1-3.0	95591.03		11:50							
4	S2-N2-0.5	95591.04	12/27/18	8:20				X	X		COMP GROUP 2.2
5	S2-N2-2.0	95591.05		8:21							
6	S2-N2-3.0	95591.06		8:22							
7	S2-N3-0.5	95591.07		8:10				X	X		COMP GROUP 2.2
8	S2-N3-2.0	95591.08		9:11							
9	S2-N3-3.0	95591.09		8:12							
10	S2-E1-0.5	95591.10		8:00				X	X	X	COMP GROUP 2.2
11	S2-E1-2.0	95591.11		9:01							
12	S2-E1-3.0	95591.12		8:02							
13	S2-W1-0.5	95591.13	12/28/18	12:00				X	X		COMP GROUP 2.1
14	S2-W1-2.0	95591.14		12:01							
15	S2-W1-3.0	95591.15		12:02							

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☐ NORMAL ☒ RUSH (OCPs) ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☒ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	JOHN ZIEGLER		
Date: / Time:	12/28/18 4:25		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:			Ant
Date: / Time:			12/28/18 1625

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110337

AETL JOB No. 95591

Page 2 of 4

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE AV, MONROVIA 91016
PHONE: 626 970-1234
FAX:
PROJECT NAME: McKinley Comp Mod
PROJECT #: 18-41-733-02
SITE NAME AND ADDRESS: McKinley ES / 7812 McKinley AV. LA CA ~~90017~~ 90001
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 AS	EPA 6010 PB	EPA 8082 PCBs	TEST INSTRUCTIONS & COMMENTS
1	S2-W2-0.5	95591.16	12/20/18	12:10	SOIL	1 JAR		X	X		HOLD ALL 2.0 & 3.0 FOOT SAMPLES
2	S2-W2-2.0	95591.17	↓	12:11	↓	↓					COMP GROUP 2.1
3	S2-W2-3.0	95591.18	↓	12:12	↓	↓					
4	S3-W1-0.5	95591.19	12/20/18	12:20	↓	↓		X	X		COMP GROUP 3.1
5	S3-W1-2.0	95591.20	↓	12:21	↓	↓					
6	S3-W1-3.0	95591.21	↓	12:22	↓	↓					
7	S3-W2-0.5	95591.22	↓	12:30	↓	↓		X	X		COMP GROUP 3.1
8	S3-W2-2.0	95591.23	↓	12:31	↓	↓					
9	S3-W2-3.0	95591.24	↓	12:32	↓	↓					
10	S3-E1-0.5	95591.25	↓	9:50	↓	↓		X	X		COMP GROUP 3.2
11	S3-E1-2.0	95591.26	↓	9:55	↓	↓					
12	S3-E1-3.0	95591.27	↓	9:59	↓	↓					
13	S3-E2-0.5	95591.28	↓	7:45	↓	↓		X	X	X	COMP GROUP 3.2
14	S3-E2-2.0	95591.29	↓	7:46	↓	↓					
15	S3-E2-3.0	95591.30	↓	7:47	↓	↓					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA	0	SAMPLES INTACT Y / N / NA	0
RECEIVED IN GOOD COND. Y / N	0	SAMPLES ACCEPTED Y / N	0

TURN AROUND TIME

☐ NORMAL ☒ RUSH (OCPs) ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☒ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY: SAMPLER:	Signature:	RELINQUISHED BY: Signature:	RELINQUISHED BY: Signature:
	Printed Name: JOHN ZIEGLER	Printed Name:	Printed Name:
	Date: 12/20/18 Time: 4:25	Date: Time:	Date: Time:
RECEIVED BY:	Signature:	RECEIVED BY: Signature:	RECEIVED BY LABORATORY: Signature: AETL
	Printed Name:	Printed Name:	Printed Name: AT
	Date: Time:	Date: Time:	Date: 12/28/18 Time: 1625

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110339

AETL JOB No. 95591

Page 3 of 4

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE AV, MONROVIA 91016
PHONE: 626 930-1234
FAX:
PROJECT NAME: Mckinly Comp Mod
PROJECT #: 18-41-233-02
SITE NAME AND ADDRESS: Mckinley ES, 7912 Mckinley AV. LA CA 90001
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6010 AS	EPA 6010 PB	EPA 8082 PCBS	EPA 8081 OCPS	TEST INSTRUCTIONS & COMMENTS
1	S3-W3-0.5	95591.31	12/28/18	1:30	SOIL	1 JAR		X	X			HOLD ALL 2.0 & 3.0 FOOT SAMPLES COMP GROUP 3.1
2	S3-W3-2.0	95591.32		1:31								
3	S3-W3-3.0	95591.33		1:32								
4	S3-S1-0.5	95591.34		1:20				X	X			COMP GROUP 3.1
5	S3-S1-2.0	95591.35		1:21								
6	S3-S1-3.0	95591.36		1:22								
7	S4-N1-0.5	95591.37	12/27/18	2:00		1 Sleeve		X	X			Comp group 3.2
8	S4-N1-2.0	95591.38		2:01								
9	S4-N1-3.0	95591.39		2:02								
10	S4-N2-0.5	95591.40	12/27/18	1:50				X	X			Compgroup 3.2
11	S4 N2-2.0	95591.41		1:51								
12	S4 N2-3.0	95591.42		1:52								
13	S4 S2-0.5	95591.43		12:50				X	X			COMP GROUP 4.1
14	S4 S2-2.0	95591.44		12:51								
15	S4 S2-3.0	95591.45		12:52								

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

(✓) NORMAL (✓) RUSH OCPS
- ☐ SAME DAY
- ☐ NEXT DAY
- ☐ 2 DAYS
- ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

- ☐ HARD COPY
- ☐ PDF
- ☐ GEOTRACKER (GLOBAL ID) _____
- ☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER / RELINQUISHED BY: / RELINQUISHED BY:	JRZ		
Signature:			
Printed Name:	JOHN ZIEGLER		
Date: / Time:	12/28/18 1:25		
RECEIVED BY: / RECEIVED BY: / RECEIVED BY LABORATORY:			AETL
Signature:			
Printed Name:			AT
Date: / Time:			12/28/18 1625

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110340

AETL JOB No. 95591

Page 4 of 4

COMPANY	CONVERSE
PROJECT MANAGER	JDZ
COMPANY ADDRESS	717 S. MYRTLE AV. MONROVIA 91016
PHONE / FAX	626 930-1234
PROJECT NAME	McKinley Comp Mod
PROJECT #	18-A1-233-02
SITE NAME AND ADDRESS	McKinley ES, 7912 McKinley AV. LA CA 90001
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	S4-S1-0.5	95591-46	12/20/18	1:00	SOIL	1 JAR	
2	S4-S1-2.0	95591-47		1:01			
3	S4-S1-3.0	95591-48		1:03			
4	S4-W1-0.5	95591-49		1:10			
5	S4-W1-2.0	95591-50		1:11			
6	S4-W1-3.0	95591-51		1:12			
7							
8							
9	COMP 2.1	95591-52					
10	COMP 2.2	95591-53					
11	COMP 3.1	95591-54					
12	COMP 3.2	95591-55					
13	COMP 4.1	95591-56					
14							
15							

ANALYSIS REQUESTED

	EPA 6020 As	EPA 6010 Pb	EPA 8082 PCBs	EPA 8081 OCPs
1	X	X		
2				
3				
4	X	X		
5				
6				
7				
8				
9				X
10				X
11				X
12				X
13				X
14				
15				

TEST INSTRUCTIONS & COMMENTS

HOLD 2.0+3.0 FOOT SAMPLES

1: COMP GROUP 4.1

4: COMP GROUP 4.1

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	11	PROPERLY COOLED (Y / N / NA)	
CUSTODY SEALS (Y / N / NA)	0	SAMPLES INTACT (Y / N / NA)	0
RECEIVED IN GOOD COND. (Y / N)	Y	SAMPLES ACCEPTED (Y / N)	Y

TURN AROUND TIME

☒ NORMAL ☒ RUSH (OCPs)

☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature			
Printed Name	JOHN ZIEGLER		
Date / Time	12/20/18 Time: 1425	Date: Time:	Date: Time:

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature			
Printed Name			AF
Date / Time	Date: Time:	Date: Time:	Date: 12/20/18 Time: 1625

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COOLER RECEIPT FORM

Client Name: Converse

Project Name:

AETL Job Number: 95590, 95591

Date Received: 12/28/18 Received by: AM

Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.3°C, No 2: 3.3, No 3:

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): sleeves

How are samples preserved: ☐ None, ☐ Ice, ☒ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		N	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	NA		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Job Number	Order Date	Client
95591	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 56 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95591.01	S2-N1-0.5	12/28/2018	Soil	1
95591.04	S2-N2-0.5	12/27/2018	Soil	1
95591.07	S2-N3-0.5	12/27/2018	Soil	1
95591.13	S2-W1-0.5	12/28/2018	Soil	1
95591.16	S2-W2-0.5	12/28/2018	Soil	1
95591.19	S3-W1-0.5	12/28/2018	Soil	1
95591.22	S3-W2-0.5	12/28/2018	Soil	1
95591.25	S3-E1-0.5	12/28/2018	Soil	1
95591.31	S3-W3-0.5	12/28/2018	Soil	1
95591.34	S3-S1-0.5	12/28/2018	Soil	1
95591.37	S4-N1-0.5	12/27/2018	Soil	1
95591.40	S4-N2-0.5	12/27/2018	Soil	1
95591.43	S4-S2-0.5	12/27/2018	Soil	1
95591.46	S4-S1-0.5	12/28/2018	Soil	1
95591.49	S4-W1-0.5	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg

95591.02	S2-N1-2.0	12/28/2018	Soil	1
95591.03	S2-N1-3.0	12/28/2018	Soil	1
95591.05	S2-N2-2.0	12/27/2018	Soil	1
95591.06	S2-N2-3.0	12/27/2018	Soil	1
95591.08	S2-N3-2.0	12/27/2018	Soil	1
95591.09	S2-N3-3.0	12/27/2018	Soil	1
95591.11	S2-E1-2.0	12/27/2018	Soil	1

Continued

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Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Job Number	Order Date	Client
95591	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95591.12	S2-E1-3.0	12/27/2018	Soil	1
95591.14	S2-W1-2.0	12/28/2018	Soil	1
95591.15	S2-W1-3.0	12/28/2018	Soil	1
95591.17	S2-W2-2.0	12/28/2018	Soil	1
95591.18	S2-W2-3.0	12/28/2018	Soil	1
95591.20	S3-W1-2.0	12/28/2018	Soil	1
95591.21	S3-W1-3.0	12/28/2018	Soil	1
95591.23	S3-W2-2.0	12/28/2018	Soil	1
95591.24	S3-W2-3.0	12/28/2018	Soil	1
95591.26	S3-E1-2.0	12/28/2018	Soil	1
95591.27	S3-E1-3.0	12/28/2018	Soil	1
95591.29	S3-E2-2.0	12/28/2018	Soil	1
95591.30	S3-E2-3.0	12/28/2018	Soil	1
95591.32	S3-W3-2.0	12/28/2018	Soil	1
95591.33	S3-W3-3.0	12/28/2018	Soil	1
95591.35	S3-S1-2.0	12/28/2018	Soil	1
95591.36	S3-S1-3.0	12/28/2018	Soil	1
95591.38	S4-N1-2.0	12/27/2018	Soil	1
95591.39	S4-N1-3.0	12/27/2018	Soil	1
95591.41	S4-N2-2.0	12/27/2018	Soil	1
95591.42	S4-N2-3.0	12/27/2018	Soil	1
95591.44	S4-S2-2.0	12/27/2018	Soil	1
95591.45	S4-S2-3.0	12/27/2018	Soil	1
95591.47	S4-S1-2.0	12/28/2018	Soil	1
95591.48	S4-S1-3.0	12/28/2018	Soil	1
95591.50	S4-W1-2.0	12/28/2018	Soil	1
95591.51	S4-W1-3.0	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/04/2019	2	Normal	--

Continued

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Ordered By

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Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Job Number	Order Date	Client
95591	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95591.10	S2-E1-0.5	12/27/2018	Soil	1
95591.28	S3-E2-0.5	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg
(8082)	01/04/2019	2	Normal	ug/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95591.52	COMP2.1-0.5	12/28/2018	Soil	1
95591.53	COMP2.2-0.5	12/27/2018	Soil	1
95591.54	COMP3.1-0.5	12/28/2018	Soil	1
95591.55	COMP3.2-0.5	12/27/2018	Soil	1
95591.56	COMP4.1-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	01/03/2019	4	Rush	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **2**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			Method Blank	95591.52	95591.53	95591.54	95591.55
Client Sample I.D.				COMP2.1-0.5	COMP2.2-0.5	COMP3.1-0.5	COMP3.2-0.5
Date Sampled				12/28/2018	12/27/2018	12/28/2018	12/27/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Aldrin	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (Total)	1.0	2.0	ND	ND	1.11J	ND	1.03J
Chlordane (alpha)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDD (DDD)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDE (DDE)	1.0	2.0	ND	ND	ND	ND	ND
4,4'-DDT (DDT)	1.0	2.0	ND	ND	ND	ND	ND
Dieldrin	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 1	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan 11	1.0	2.0	ND	ND	ND	ND	ND
Endosulfan sulfate	1.0	2.0	ND	ND	ND	ND	ND
Endrin	1.0	2.0	ND	ND	ND	ND	ND
Endrin aldehyde	1.0	2.0	ND	ND	ND	ND	ND
Endrin ketone	1.0	2.0	ND	ND	ND	ND	ND
Chlordane (gamma)	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor	1.0	2.0	ND	ND	ND	ND	ND
Heptachlor epoxide	1.0	2.0	ND	ND	ND	ND	ND
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND	ND	ND	ND
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND	ND	ND	ND
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND	ND	ND	ND
Methoxychlor	5.0	10.0	ND	ND	ND	ND	ND
Toxaphene	25.0	50.0	ND	ND	ND	ND	ND

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ANALYTICAL RESULTS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	95591.52	95591.53	95591.54	95591.55
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		108	96.0	79.2	86.4	81.6
Tetrachloro-m-xylene	30-150		138	106	113	106	114

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **4**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			95591.56				
Client Sample I.D.			COMP4.1-0.5				
Date Sampled			12/27/2018				
Date Prepared			01/02/2019				
Preparation Method			3550B				
Date Analyzed			01/02/2019				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	25.0	50.0	ND				

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ANALYTICAL RESULTS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			95591.56				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	**30-150**		**82.4**				
Tetrachloro-m-xylene	**30-150**		**124**				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank	**95591.28**			
Client Sample I.D.				S3-E2-0.5			
Date Sampled				**12/28/2018**			
Date Prepared			**01/02/2019**	**01/02/2019**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**01/02/2019**	**01/02/2019**			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aroclor-1016 (PCB-1016)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1221 (PCB-1221)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1232 (PCB-1232)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1242 (PCB-1242)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1248 (PCB-1248)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1254 (PCB-1254)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1260 (PCB-1260)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1262 (PCB-1262)	**25.0**	**50.0**	**ND**	**ND**			
Aroclor-1268 (PCB-1268)	**25.0**	**50.0**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**95591.28**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	**30-150**		**104**	**104**			
Tetrachloro-m-xylene	**30-150**		**118**	**106**			

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			95591.10				
Client Sample I.D.			S2-E1-0.5				
Date Sampled			12/27/2018				
Date Prepared			01/02/2019				
Preparation Method			3550B				
Date Analyzed			01/02/2019				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	50	100	ND				
Aroclor-1221 (PCB-1221)	50	100	ND				
Aroclor-1232 (PCB-1232)	50	100	ND				
Aroclor-1242 (PCB-1242)	50	100	ND				
Aroclor-1248 (PCB-1248)	50	100	ND				
Aroclor-1254 (PCB-1254)	50	100	ND				
Aroclor-1260 (PCB-1260)	50	100	ND				
Aroclor-1262 (PCB-1262)	50	100	ND				
Aroclor-1268 (PCB-1268)	50	100	ND				

Comment(s):
95591.10: Analyzed under dilution due to matrix interference

Our Lab I.D.			95591.10				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		99.6				
Tetrachloro-m-xylene	30-150		98.8				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C10

Our Lab I.D.			Method Blank	95591.01	95591.04	95591.07	95591.10
Client Sample I.D.				S2-N1-0.5	S2-N2-0.5	S2-N3-0.5	S2-E1-0.5
Date Sampled				12/28/2018	12/27/2018	12/27/2018	12/27/2018
Date Prepared			01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	6.95	59.1	6.88	38.9

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C10

Our Lab I.D.			95591.13	95591.16	95591.19	95591.22	95591.25
Client Sample I.D.			S2-W1-0.5	S2-W2-0.5	S3-W1-0.5	S3-W2-0.5	S3-E1-0.5
Date Sampled			12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Date Prepared			01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	41.4	23.9	49.9	50.1	8.12

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C10

Our Lab I.D.			95591.28				
Client Sample I.D.			S3-E2-0.5				
Date Sampled			12/28/2018				
Date Prepared			01/02/2018				
Preparation Method			3050B				
Date Analyzed			01/03/2019				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	44.1				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C11

Our Lab I.D.			Method Blank	95591.31	95591.34	95591.37	95591.40
Client Sample I.D.				S3-W3-0.5	S3-S1-0.5	S4-N1-0.5	S4-N2-0.5
Date Sampled				12/28/2018	12/28/2018	12/27/2018	12/27/2018
Date Prepared			01/02/2018	01/02/2018	01/02/2018	01/02/2018	01/02/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	46.9	58.5	8.64	2.95J

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C11

Our Lab I.D.			95591.43	95591.46	95591.49		
Client Sample I.D.			S4-S2-0.5	S4-S1-0.5	S4-W1-0.5		
Date Sampled			12/27/2018	12/28/2018	12/28/2018		
Date Prepared			01/02/2018	01/02/2018	01/02/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			01/03/2019	01/03/2019	01/03/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.5	5.0	4.73J	20.4	22.1		

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C2

Our Lab I.D.			Method Blank	95591.01	95591.04	95591.07	95591.10
Client Sample I.D.				S2-N1-0.5	S2-N2-0.5	S2-N3-0.5	S2-E1-0.5
Date Sampled				12/28/2018	12/27/2018	12/27/2018	12/27/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	1.83	9.44	2.13	24.0

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C2

Our Lab I.D.			95591.13	95591.16	95591.19	95591.22	95591.25
Client Sample I.D.			S2-W1-0.5	S2-W2-0.5	S3-W1-0.5	S3-W2-0.5	S3-E1-0.5
Date Sampled			12/28/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	6.17	4.06	11.7	13.3	2.41

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C2

Our Lab I.D.			**95591.28**				
Client Sample I.D.			S3-E2-0.5				
Date Sampled			**12/28/2018**				
Date Prepared			**01/02/2019**				
Preparation Method			**3050B**				
Date Analyzed			**01/03/2019**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	**0.05**	**0.10**	**1.52**				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C3

Our Lab I.D.			Method Blank	95591.31	95591.34	95591.37	95591.40
Client Sample I.D.				S3-W3-0.5	S3-S1-0.5	S4-N1-0.5	S4-N2-0.5
Date Sampled				12/28/2018	12/28/2018	12/27/2018	12/27/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	28.6	3.38	0.821	1.13

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C3

Our Lab I.D.			95591.43	95591.46	95591.49		
Client Sample I.D.			S4-S2-0.5	S4-S1-0.5	S4-W1-0.5		
Date Sampled			12/27/2018	12/28/2018	12/28/2018		
Date Prepared			01/02/2019	01/02/2019	01/02/2019		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			01/03/2019	01/03/2019	01/03/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	10.4	2.60	3.62		

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C10; Dup or Spiked Sample: 95591.01; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**6.95**	**50.0**	**43.1 #**	**72.3**	**50.0**	**44.0 #**	**74.1**	**2.5**	**75-125**	**<15**

QC Batch No: 0102182C10; Dup or Spiked Sample: 95591.01; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**50.0**	**48.7**	**97.4**	**50.0**	**48.5**	**97.0**	**<1**	**75-125**	**<15**	

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102182C11; Dup or Spiked Sample: 95591.31; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**46.9**	**50.0**	**85.5**	**77.2**	**50.0**	**84.6**	**75.4**	**2.4**	**75-125**	**<15**

QC Batch No: 0102182C11; Dup or Spiked Sample: 95591.31; LCS: Clean Sand; QC Prepared: 01/02/2018; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**50.0**	**48.4**	**96.8**	**50.0**	**49.0**	**98.0**	**1.2**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **20**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C2; Dup or Spiked Sample: 95591.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**1.83**	**10.0**	**11.5**	**96.7**	**10.0**	**10.6**	**87.7**	**9.76**	**80-120**	**<15**

QC Batch No: 0102191C2; Dup or Spiked Sample: 95591.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**10.2**	**102**	**10.0**	**9.19**	**91.9**	**10.4**	**80-120**	**<15**	

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Site

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Los Angeles, CA 90001

Page: **21**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C3; Dup or Spiked Sample: 95591.31; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**28.6**	**10.0**	**35.4 #**	**68.0**	**10.0**	**36.2 #**	**76.0**	**11.1**	**80-120**	**<15**

QC Batch No: 0102191C3; Dup or Spiked Sample: 95591.31; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**9.24**	**92.4**	**10.0**	**10.0**	**100**	**7.90**	**80-120**	**<15**	

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Site

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Los Angeles, CA 90001

Page: **22**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.4	92.0	20.0	18.5	92.5	<1	40-150	<40
4,4'-DDT (DDT)	1.96	50.0	42.1	80.3	50.0	44.7	85.5	6.3	40-150	<40
Dieldrin	0.276	50.0	47.7	94.8	50.0	48.1	95.6	<1	40-150	<40
Endrin	0.00	50.0	65.0	130	50.0	65.5	131	<1	40-150	<40
Heptachlor	0.00	20.0	19.1	95.5	20.0	19.4	97.0	1.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.4	97.0	20.0	18.6	93.0	4.2	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	25.0	100	25.0	27.5	110	9.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	34.3	137	25.0	35.3	141	2.9	30-150	<40

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	14.9	74.5	20.0	16.1	80.5	7.7	50-150	<40	
4,4'-DDT (DDT)	50.0	29.9	59.8	50.0	30.0	60.0	<1	50-150	<40	
Dieldrin	50.0	39.7	79.4	50.0	42.4	84.8	6.6	50-150	<40	
Endrin	50.0	51.5	103	50.0	53.5	107	3.8	50-150	<40	
Heptachlor	20.0	15.7	78.5	20.0	16.3	81.5	3.8	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.7	83.5	20.0	17.3	86.5	3.5	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	20.7	82.8	25.0	20.6	82.4	<1	30-150	<40	
Tetrachloro-m-xylene	25.0	29.0	116	25.0	30.0	120	3.4	30-150	<40	

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Site

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7812 McKinley Ave.
Los Angeles, CA 90001

Page: **23**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95591	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Number of Pages 16
Date Received 12/28/2018
Date Reported 01/04/2019

Job Number	Order Date	Client
95592	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 S. McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 6 discrete and 2 composite soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110330

AETL JOB No. 95592

Page 1 of 2

COMPANY	CONVERSE
PROJECT MANAGER	JRZ
COMPANY ADDRESS	717 S. MYRTLE AV. MONROVIA 91016
PHONE	626 930 -1234
FAX	
PROJECT NAME	McKinley Comp Mod
PROJECT #	18-41-237-02
SITE NAME AND ADDRESS	McKinley ES, 7917 S. McKinley LA CA 90001
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6010 Pb	EPA 8082 PCBs	TEST INSTRUCTIONS & COMMENTS
1	SG-N1-0.5	95592.01	12/27/18	8:30	SOIL	1 JAR		X	X	X	HOLD 2.0 & 3.0 SAMPLES
2	SG-N1-2.0	95592.02		8:31							Comp group 9.1
3	SG-N1-3.0	95592.03		8:32							
4	SG-N2-0.5	95592.04		8:40				X	X		Comp group 9.1
5	SG-N2-2.0	95592.05		8:41							
6	SG-N2-3.0	95592.06		8:42							
7	SG-W1-0.5	95592.07		8:50				X	X		Comp group 9.1
8	SG-W1-2.0	95592.08		8:51							
9	SG-W1-3.0	95592.09		8:52							
10	SG-E1-0.5	95592.10	12/28/18	8:40		1 sleeve		X	X		Comp group 9.1
11	SG-E1-2.0	95592.11	12/28/18	8:41		1 sleeve					
12	SG-E1-3.0	95592.12	12/28/18	8:42		1 sleeve					
13	SG-E2-0.5	95592.13	12/27/18	9:00		1 JAR		X	X	X	Comp group 9.2
14	SG-E2-2.0	95592.14	12/27/18	9:01		1 JAR					
15	SG-E2-3.0	95592.15	12/27/18	9:02		1 JAR					

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

RELINQUISHED BY: SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: JOHN TIEGLER	Printed Name:	Printed Name:
Date: 12/28/18 Time: 4:30	Date: Time:	Date: Time:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: AM
Date: Time:	Date: Time:	Date: 12/28/18 Time: 1630

TURN AROUND TIME

- [x] NORMAL
- [x] RUSH
- [ ] SAME DAY
- [ ] NEXT DAY
- [ ] ~~2 DAYS~~
- [x] 3 DAYS

OCLPS

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CHAIN OF CUSTODY RECORD

110329

AETL JOB No. 95592

COMPANY: CONVERSE
PROJECT MANAGER: JR2
COMPANY ADDRESS: 717 S. MYRTLE AV MONROVIA 9016
PHONE: 626 930-1234
FAX:
PROJECT NAME: Mckinley Comp Mod
PROJECT #: 18-41-233-02
SITE NAME AND ADDRESS: Mckinley ES, 7912 Mckinley, LA CA 90001
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6010 Pb	EPA 8082 PCBs	EPA 8081 OCPs	TEST INSTRUCTIONS & COMMENTS
1	S9-S1-0.5	95592.16	12/27/18	8:55	SOIL	1 JAR		X	X			HOLD 2.0; 3.0 SAMPLES
2	S9-S1-2.0	95592.17	↓	8:56	↓	↓						Comp group 9.2
3	S9-S1-3.0	95592.18	↓	8:57	↓	↓						
4												
5												
6	COMP 9.1	95592.19									X	
7	COM 9.2	95592.20									X	
8												
9												
10												
11												
12												
13												
14												
15												

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	5	PROPERLY COOLED (Y / N / NA)	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT (Y / N / NA)	
RECEIVED IN GOOD COND. (Y / N)		SAMPLES ACCEPTED (Y / N)	

TURN AROUND TIME

☐ NORMAL ☒ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☒ 3 DAYS
OCPs

DATA DELIVERABLE REQUIRED

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☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature: JOHN ZIEGLER	Signature:	Signature:
	Printed Name:	Printed Name:	Printed Name:
	Date: 12/28 Time: 9:30	Date: Time:	Date: Time:
RECEIVED BY:	Signature:	Signature:	Signature:
	Printed Name:	Printed Name:	Printed Name:
	Date: Time:	Date: Time:	Date: Time:
RECEIVED BY LABORATORY:			Signature: AETL
			Printed Name: AT
			Date: 12/28/18 Time: 16:30

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COOLER RECEIPT FORM

Client Name: Converse
Project Name:
AETL Job Number: 95592
Date Received: 12/28/18 Received by: AN
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): Sleeves
How are samples preserved: ☐ None, ☐ Ice, ☒ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		N	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/04/2019

Job Number	Order Date	Client
95592	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 20 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95592.01	S9-N1-0.5	12/27/2018	Soil	1
95592.13	S9-E2-0.5	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg
(8082)	01/04/2019	2	Normal	ug/Kg

95592.02	S9-N1-2.0	12/27/2018	Soil	1
95592.03	S9-N1-3.0	12/27/2018	Soil	1
95592.05	S9-N2-2.0	12/27/2018	Soil	1
95592.06	S9-N2-3.0	12/27/2018	Soil	1
95592.08	S9-W1-2.0	12/27/2018	Soil	1
95592.09	S9-W1-3.0	12/27/2018	Soil	1
95592.11	S9-E1-2.0	12/28/2018	Soil	1
95592.12	S9-E1-3.0	12/28/2018	Soil	1
95592.14	S9-E2-2.0	12/28/2018	Soil	1
95592.15	S9-E2-3.0	12/28/2018	Soil	1
95592.17	S9-S1-2.0	12/28/2018	Soil	1
95592.18	S9-S1-3.0	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/04/2019	2	Normal	--

95592.04	S9-N2-0.5	12/27/2018	Soil	1
95592.07	S9-W1-0.5	12/27/2018	Soil	1
95592.10	S9-E1-0.5	12/28/2018	Soil	1
95592.16	S9-S1-0.5	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg

Continued

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Ordered By

Converse Consultants **717 S. Myrtle Ave.** **Monrovia, CA 91016-**	**Project ID: 18-41-233-02** **Date Received 12/28/2018** **Date Reported 01/04/2019**
Telephone: (626)930-1200 **Attention: John Ziegler**	

Job Number	Order Date	Client
95592	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95592.16	S9-S1-0.5	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg

95592.19	COMP9.1-0.5	12/27/2018	Soil	1
95592.20	COMP9.2-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	01/03/2019	4	Rush	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			01/02/2019				
Preparation Method			3550B				
Date Analyzed			01/02/2019				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	25.0	50.0	ND				

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ANALYTICAL RESULTS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	**30-150**		**108**				
Tetrachloro-m-xylene	**30-150**		**138**				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			95592.19	95592.20			
Client Sample I.D.			COMP9.1-0.5	COMP9.2-0.5			
Date Sampled			12/27/2018	12/27/2018			
Date Prepared			01/02/2019	01/02/2019			
Preparation Method			3550B	3550B			
Date Analyzed			01/02/2019	01/02/2019			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			5	5			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	5	10	ND	ND			
Chlordane (Total)	5	10	ND	ND			
Chlordane (alpha)	5	10	ND	ND			
4,4'-DDD (DDD)	5	10	ND	ND			
4,4'-DDE (DDE)	5	10	ND	ND			
4,4'-DDT (DDT)	5	10	ND	ND			
Dieldrin	5	10	ND	ND			
Endosulfan 1	5	10	ND	ND			
Endosulfan 11	5	10	ND	ND			
Endosulfan sulfate	5	10	ND	ND			
Endrin	5	10	ND	ND			
Endrin aldehyde	5	10	ND	ND			
Endrin ketone	5	10	ND	ND			
Chlordane (gamma)	5	10	ND	ND			
Heptachlor	5	10	ND	ND			
Heptachlor epoxide	5	10	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND	ND			
Methoxychlor	25	50	ND	ND			
Toxaphene	125	250	ND	ND			

Comment(s):
95592.19: Analyzed under dilution due to matrix interference 95592.20: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			95592.19	95592.20			
Surrogates	%Rec.Limit		% Rec.	% Rec.			
Decachlorobiphenyl	30-150		89.2	82.4			
Tetrachloro-m-xylene	30-150		125	112			

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**01/02/2019**				
Preparation Method			**3550B**				
Date Analyzed			**01/02/2019**				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	**25.0**	**50.0**	**ND**				
Aroclor-1221 (PCB-1221)	**25.0**	**50.0**	**ND**				
Aroclor-1232 (PCB-1232)	**25.0**	**50.0**	**ND**				
Aroclor-1242 (PCB-1242)	**25.0**	**50.0**	**ND**				
Aroclor-1248 (PCB-1248)	**25.0**	**50.0**	**ND**				
Aroclor-1254 (PCB-1254)	**25.0**	**50.0**	**ND**				
Aroclor-1260 (PCB-1260)	**25.0**	**50.0**	**ND**				
Aroclor-1262 (PCB-1262)	**25.0**	**50.0**	**ND**				
Aroclor-1268 (PCB-1268)	**25.0**	**50.0**	**ND**				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	**30-150**		**104**				
Tetrachloro-m-xylene	**30-150**		**118**				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			95592.01				
Client Sample I.D.			S9-N1-0.5				
Date Sampled			12/27/2018				
Date Prepared			01/02/2019				
Preparation Method			3550B				
Date Analyzed			01/02/2019				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	125	250	ND				
Aroclor-1221 (PCB-1221)	125	250	ND				
Aroclor-1232 (PCB-1232)	125	250	ND				
Aroclor-1242 (PCB-1242)	125	250	ND				
Aroclor-1248 (PCB-1248)	125	250	ND				
Aroclor-1254 (PCB-1254)	125	250	ND				
Aroclor-1260 (PCB-1260)	125	250	ND				
Aroclor-1262 (PCB-1262)	125	250	ND				
Aroclor-1268 (PCB-1268)	125	250	ND				

Comment(s):
95592.01: Analyzed under dilution due to matrix interference

Our Lab I.D.			95592.01				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		139				
Tetrachloro-m-xylene	30-150		114				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			95592.13				
Client Sample I.D.			S9-E2-0.5				
Date Sampled			12/28/2018				
Date Prepared			01/02/2019				
Preparation Method			3550B				
Date Analyzed			01/02/2019				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	50	100	ND				
Aroclor-1221 (PCB-1221)	50	100	ND				
Aroclor-1232 (PCB-1232)	50	100	ND				
Aroclor-1242 (PCB-1242)	50	100	ND				
Aroclor-1248 (PCB-1248)	50	100	ND				
Aroclor-1254 (PCB-1254)	50	100	ND				
Aroclor-1260 (PCB-1260)	50	100	ND				
Aroclor-1262 (PCB-1262)	50	100	ND				
Aroclor-1268 (PCB-1268)	50	100	ND				

Comment(s):
95592.13: Analyzed under dilution due to matrix interference

Our Lab I.D.			95592.13				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		114				
Tetrachloro-m-xylene	30-150		109				

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C2

Our Lab I.D.			Method Blank	95592.01	95592.04	95592.07	95592.10
Client Sample I.D.				S9-N1-0.5	S9-N2-0.5	S9-W1-0.5	S9-E1-0.5
Date Sampled				12/27/2018	12/27/2018	12/27/2018	12/28/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	25.8	20.9	16.4	ND

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C2

Our Lab I.D.			95592.13	95592.16			
Client Sample I.D.			S9-E2-0.5	S9-S1-0.5			
Date Sampled			12/28/2018	12/28/2018			
Date Prepared			01/02/2019	01/02/2019			
Preparation Method			3050B	3050B			
Date Analyzed			01/03/2019	01/03/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	2.5	5.0	12.8	20.8			

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C4

Our Lab I.D.			Method Blank	95592.01	95592.04	95592.07	95592.10
Client Sample I.D.				S9-N1-0.5	S9-N2-0.5	S9-W1-0.5	S9-E1-0.5
Date Sampled				12/27/2018	12/27/2018	12/27/2018	12/28/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	4.38	3.49	3.09	0.610

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C4

Our Lab I.D.			95592.13	95592.16			
Client Sample I.D.			S9-E2-0.5	S9-S1-0.5			
Date Sampled			12/28/2018	12/28/2018			
Date Prepared			01/02/2019	01/02/2019			
Preparation Method			3050B	3050B			
Date Analyzed			01/03/2019	01/03/2019			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	3.26	4.42			

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C2; Dup or Spiked Sample: 95592.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**20.9**	**50.0**	**60.8**	**79.8**	**50.0**	**60.3**	**78.8**	**1.3**	**75-125**	**<15**

QC Batch No: 0102192C2; Dup or Spiked Sample: 95592.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**50.0**	**49.5**	**99.0**	**50.0**	**49.1**	**98.2**	**<1**	**75-125**	**<15**	

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C4; Dup or Spiked Sample: 95592.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.49	10.0	13.5	100	10.0	13.5	100	<1	80-120	<15

QC Batch No: 0102191C4; Dup or Spiked Sample: 95592.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	10.0	9.01	90.1	10.0	9.05	90.5	<1	80-120	<15	

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.4	92.0	20.0	18.5	92.5	<1	40-150	<40
4,4'-DDT (DDT)	1.96	50.0	42.1	80.3	50.0	44.7	85.5	6.3	40-150	<40
Dieldrin	0.276	50.0	47.7	94.8	50.0	48.1	95.6	<1	40-150	<40
Endrin	0.00	50.0	65.0	130	50.0	65.5	131	<1	40-150	<40
Heptachlor	0.00	20.0	19.1	95.5	20.0	19.4	97.0	1.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.4	97.0	20.0	18.6	93.0	4.2	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	25.0	100	25.0	27.5	110	9.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	34.3	137	25.0	35.3	141	2.9	30-150	<40

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	14.9	74.5	20.0	16.1	80.5	7.7	50-150	<40	
4,4'-DDT (DDT)	50.0	29.9	59.8	50.0	30.0	60.0	<1	50-150	<40	
Dieldrin	50.0	39.7	79.4	50.0	42.4	84.8	6.6	50-150	<40	
Endrin	50.0	51.5	103	50.0	53.5	107	3.8	50-150	<40	
Heptachlor	20.0	15.7	78.5	20.0	16.3	81.5	3.8	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.7	83.5	20.0	17.3	86.5	3.5	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	20.7	82.8	25.0	20.6	82.4	<1	30-150	<40	
Tetrachloro-m-xylene	25.0	29.0	116	25.0	30.0	120	3.4	30-150	<40	

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 S. McKinley Ave.
Los Angeles, CA 90001

Page: **16**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95592	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Number of Pages	**17**
Date Received	**12/28/2018**
Date Reported	**01/04/2019**

Job Number	Order Date	Client
95593	12/28/2018	CONVRS

Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 12 discrete and 3 composite soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110430

AETL JOB No. 95593

Page 1 of 3

COMPANY	CONVERSE	PROJECT MANAGER	JRZ
COMPANY ADDRESS	717 S. MYRTLE AV MONROVIA 91016	PHONE / FAX	626 930-1234
PROJECT NAME	Mckinley Comp Mod	PROJECT #	18-41-233-01
SITE NAME AND ADDRESS	Mckinley ES 7812 Mckinley LA CA 90001	PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6010 Pb	EPA 8082 PCBs	TEST INSTRUCTIONS & COMMENTS
1	ST-S1-0.5	95593.01	12/27/18	9:20	SOIL	1 JAR		X	X		HOLD 2.0 & 3.0 SAMPLE
2	ST-S1-2.0	95593.02		9:21							
3	ST-S1-3.0	95593.03		9:22							
4	ST-S2-05	95593.04		9:30				X	X		Comp group 7.2
5	ST-S2-2.0	95593.05		9:31							
6	ST-S2-3.0	95593.06		9:32							
7	ST-S3-0.5	95593.07		9:50				X	X		Comp group 7.2
8	ST-S3-2.0	95593.08		9:51							
9	ST-S3-3.0	95593.09		9:52							
10	ST-S4-0.5	95593.10		10:00				X	X		Comp group 7.3
11	ST-S4-2.0	95593.11		10:01							
12	ST-S4-3.0	95593.12		10:02							
13	ST-S5-0.5	95593.13		10:10				X	X		Comp group 7.3
14	ST-S5-2.0	95593.14		10:11							
15	ST-S5-3.0	95593.15		10:12							

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☒ RUSH OCIS ☐ SAME DAY ☐ NEXT DAY ☐ ~~2 DAYS~~ ☒ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER: / RELINQUISHED BY: / RELINQUISHED BY:			
Signature:			
Printed Name:	JOHN ZIEGLER		
Date: / Time:	12/28/18 7:40		
RECEIVED BY: / RECEIVED BY: / RECEIVED BY LABORATORY: AETL			
Signature:			
Printed Name:			
Date: / Time:			1/2/18 1640

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110429

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE AV.
PHONE: 626 930 1234
FAX:
PROJECT NAME: McKinley ES Comp Mod
PROJECT #:
SITE NAME AND ADDRESS: McKinley ES, 708 McKinley LA CA 90021
PO #:

AETL JOB No. 95593

Page 2 of 3

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EDA 6010 Pb	EPA 8082 PCBs	TEST INSTRUCTIONS & COMMENTS
								ANALYSIS REQUESTED			HOLD ALL 2.0 & 3.0 SAMPLES
1	ST-N1-0.5	95593-16	12/20/18	8:31	SOIL	1 SLEEVE		X	X		COMP GROUP 7.1
2	ST-N1-2.0	95593-17		8:32							7.1
3	ST-N1-3.0	95593-18		8:33							7.1
4	ST-N2-0.5	95593-19		8:10				X	X		COMP GROUP 7.1
5	ST-N2-2.0	95593-20		8:11							7.1
6	ST-N2-3.0	95593-21		8:12							7.1
7	ST-N3-0.5	95593-22		7:50				X	X		COMP GROUP 7.2
8	ST-N3-2.0	95593-23		7:51							
9	ST-N3-3.0	95593-24		7:52							
10	ST-N4-0.5	95593-25		7:40				X	X		COMP GROUP 7.2
11	ST-N4-2.0	95593-26		7:41							
12	ST-N4-3.0	95593-27		7:42							
13	ST-N5-0.5	95593-28		7:30				X	X		COMP GROUP 7.3
14	ST-N5-2.0	95593-29		7:31							
15	ST-N5-3.0	95593-30		7:32							

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	15	PROPERLY COOLED (Y / N / NA)	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT (Y / N / NA)	
RECEIVED IN GOOD COND. (Y / N)		SAMPLES ACCEPTED (Y / N)	

TURN AROUND TIME

☑ NORMAL ☒ RUSH (OCPs)
☐ SAME DAY
☐ NEXT DAY
☐ 2 DAYS
☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	RELINQUISHED BY: Signature:	RELINQUISHED BY: Signature:
	Printed Name: JOHN ZIEGLER	Printed Name:	Printed Name:
	Date: 12/20/18 Time: 1740	Date: Time:	Date: Time:
RECEIVED BY:	Signature:	RECEIVED BY: Signature:	RECEIVED BY LABORATORY: AETL Signature:
	Printed Name:	Printed Name:	Printed Name:
	Date: Time:	Date: Time:	Date: 12/21/18 Time: 1640

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110328

AETL JOB No. 95593

Page 3 of 3

COMPANY	CONVERSE
PROJECT MANAGER	JNZ
COMPANY ADDRESS	717 S. MYRTLE AV. MONROVIA 91016
PHONE	626 930-1234
FAX	
PROJECT NAME	
PROJECT #	18-41-233-02
SITE NAME AND ADDRESS	
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6010 Pb	EPA 8082 PCBs	EPA 8081 OCPs	TEST INSTRUCTIONS & COMMENTS
1	S7-E1-0.5	95593.31	12/27/18		SOIL	1 JAR		X	X	X		COMP GROUP 7.3
2	S7-E1-2.0	95593.32	↓		↓	↓						
3	S7-E1-3.0	95593.33										
4	S7-W1-0.5	95593.34						X	X			COMP GROUP 7.1
5	S7-W1-2.0	95593.35										
6	S7-W1-3.0	95593.36										
7												
8												
9	COMP 7.1-0.5	95593.37									X	
10	COMP 7.2-0.5	95593.38									X	
11	COMP 7.3-0.5	95593.39									X	
12												
13												
14												
15												

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	9	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME

☐ NORMAL ☒ RUSH
☐ SAME DAY
☐ NEXT DAY
☐ ~~2 DAYS~~
☐ 3 DAYS

OCPs

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	JOHN ZIELKER		
Date: / Time:	12/28/18 7:40		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:			
Date: / Time:			12/28/18 1640

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Converse

Project Name:

AETL Job Number: 95593

Date Received: 12/28/18 Received by: AL

Carrier: ☐ AETL Courier ☑ Client ☐ GSO ☐ FedEx ☐ UPS

☐ Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 3.4°C, No 2: _____, No 3: _____

Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): Sleeves

How are samples preserved: ☐ None, ☐ Ice, ☑ Blue Ice, ☐ Dry Ice

_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH

_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		Y	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/S		
11. Are the jars free of headspace?	1		

Explain all "No" answers for above questions:

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-01
Date Received 12/28/2018
Date Reported 01/04/2019

Job Number	Order Date	Client
95593	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 39 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95593.01	S7-S1-0.5	12/27/2018	Soil	1
95593.04	S7-S2-0.5	12/27/2018	Soil	1
95593.07	S7-S3-0.5	12/27/2018	Soil	1
95593.10	S7-S4-0.5	12/27/2018	Soil	1
95593.13	S7-S5-0.5	12/27/2018	Soil	1
95593.16	S7-N1-0.5	12/28/2018	Soil	1
95593.19	S7-N2-0.5	12/28/2018	Soil	1
95593.22	S7-N3-0.5	12/28/2018	Soil	1
95593.25	S7-N4-0.5	12/28/2018	Soil	1
95593.28	S7-N5-0.5	12/28/2018	Soil	1
95593.34	S7-W1-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg

95593.02	S7-S1-2.0	12/27/2018	Soil	1
95593.03	S7-S1-3.0	12/27/2018	Soil	1
95593.05	S7-S2-2.0	12/27/2018	Soil	1
95593.06	S7-S2-3.0	12/27/2018	Soil	1
95593.08	S7-S3-2.0	12/27/2018	Soil	1
95593.09	S7-S3-3.0	12/27/2018	Soil	1
95593.11	S7-S4-2.0	12/27/2018	Soil	1
95593.12	S7-S4-3.0	12/27/2018	Soil	1
95593.14	S7-S5-2.0	12/27/2018	Soil	1
95593.15	S7-S5-3.0	12/27/2018	Soil	1
95593.17	S7-N1-2.0	12/28/2018	Soil	1

Continued

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Ordered By

Converse Consultants
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Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-01
Date Received 12/28/2018
Date Reported 01/04/2019

Job Number	Order Date	Client
95593	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

95593.18	S7-N1-3.0	12/28/2018	Soil	1
95593.20	S7-N2-2.0	12/28/2018	Soil	1
95593.21	S7-N2-3.0	12/28/2018	Soil	1
95593.23	S7-N3-2.0	12/28/2018	Soil	1
95593.24	S7-N3-3.0	12/28/2018	Soil	1
95593.26	S7-N4-2.0	12/28/2018	Soil	1
95593.27	S7-N4-3.0	12/28/2018	Soil	1
95593.29	S7-N5-2.0	12/28/2018	Soil	1
95593.30	S7-N5-3.0	12/28/2018	Soil	1
95593.32	S7-E1-2.0	12/27/2018	Soil	1
95593.33	S7-E1-3.0	12/27/2018	Soil	1
95593.35	S7-W1-2.0	12/27/2018	Soil	1
95593.36	S7-W1-3.0	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/04/2019	2	Normal	--

95593.31	S7-E1-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/04/2019	2	Normal	mg/Kg
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg
(8082)	01/04/2019	2	Normal	ug/Kg

95593.37	COMP7.1-0.5	12/27/2018	Soil	1
95593.38	COMP7.2-0.5	12/27/2018	Soil	1
95593.39	COMP7.3-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8081A)	01/04/2019	2	Normal	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			01/02/2019				
Preparation Method			3550B				
Date Analyzed			01/02/2019				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aldrin	1.0	2.0	ND				
Chlordane (Total)	1.0	2.0	ND				
Chlordane (alpha)	1.0	2.0	ND				
4,4'-DDD (DDD)	1.0	2.0	ND				
4,4'-DDE (DDE)	1.0	2.0	ND				
4,4'-DDT (DDT)	1.0	2.0	ND				
Dieldrin	1.0	2.0	ND				
Endosulfan 1	1.0	2.0	ND				
Endosulfan 11	1.0	2.0	ND				
Endosulfan sulfate	1.0	2.0	ND				
Endrin	1.0	2.0	ND				
Endrin aldehyde	1.0	2.0	ND				
Endrin ketone	1.0	2.0	ND				
Chlordane (gamma)	1.0	2.0	ND				
Heptachlor	1.0	2.0	ND				
Heptachlor epoxide	1.0	2.0	ND				
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND				
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND				
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND				
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND				
Methoxychlor	5.0	10.0	ND				
Toxaphene	25.0	50.0	ND				

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ANALYTICAL RESULTS

Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	**30-150**		**108**				
Tetrachloro-m-xylene	**30-150**		**138**				

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1

Our Lab I.D.			95593.37	95593.38	95593.39		
Client Sample I.D.			COMP7.1-0.5	COMP7.2-0.5	COMP7.3-0.5		
Date Sampled			12/27/2018	12/27/2018	12/27/2018		
Date Prepared			01/02/2019	01/02/2019	01/02/2019		
Preparation Method			3550B	3550B	3550B		
Date Analyzed			01/02/2019	01/02/2019	01/02/2019		
Matrix			Soil	Soil	Soil		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			5	5	5		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Aldrin	5	10	ND	ND	ND		
Chlordane (Total)	5	10	ND	5.65J	ND		
Chlordane (alpha)	5	10	ND	ND	ND		
4,4'-DDD (DDD)	5	10	ND	ND	ND		
4,4'-DDE (DDE)	5	10	ND	5.73J	ND		
4,4'-DDT (DDT)	5	10	ND	6.99J	ND		
Dieldrin	5	10	ND	ND	ND		
Endosulfan 1	5	10	ND	ND	ND		
Endosulfan 11	5	10	ND	ND	ND		
Endosulfan sulfate	5	10	ND	ND	ND		
Endrin	5	10	ND	ND	ND		
Endrin aldehyde	5	10	ND	ND	ND		
Endrin ketone	5	10	ND	ND	ND		
Chlordane (gamma)	5	10	ND	ND	ND		
Heptachlor	5	10	ND	ND	ND		
Heptachlor epoxide	5	10	ND	ND	ND		
alpha-Hexachlorocyclohexane (Alpha-BHC)	5	10	ND	ND	ND		
beta-Hexachlorocyclohexane (Betta-BHC)	5	10	ND	ND	ND		
delta-Hexachlorocyclohexane (Delta-BHC)	5	10	ND	ND	ND		
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	5	10	ND	ND	ND		
Methoxychlor	25	50	ND	ND	ND		
Toxaphene	125	250	ND	ND	ND		

Comment(s):
95593.37: Analyzed under dilution due to matrix interference 95593.39: Analyzed under dilution due to matrix interference

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ANALYTICAL RESULTS

Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			95593.37	95593.38	95593.39		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		75.6	80.0	90.0		
Tetrachloro-m-xylene	30-150		98.0	103	112		

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**01/02/2019**				
Preparation Method			**3550B**				
Date Analyzed			**01/02/2019**				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	**25.0**	**50.0**	**ND**				
Aroclor-1221 (PCB-1221)	**25.0**	**50.0**	**ND**				
Aroclor-1232 (PCB-1232)	**25.0**	**50.0**	**ND**				
Aroclor-1242 (PCB-1242)	**25.0**	**50.0**	**ND**				
Aroclor-1248 (PCB-1248)	**25.0**	**50.0**	**ND**				
Aroclor-1254 (PCB-1254)	**25.0**	**50.0**	**ND**				
Aroclor-1260 (PCB-1260)	**25.0**	**50.0**	**ND**				
Aroclor-1262 (PCB-1262)	**25.0**	**50.0**	**ND**				
Aroclor-1268 (PCB-1268)	**25.0**	**50.0**	**ND**				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	**30-150**		**104**				
Tetrachloro-m-xylene	**30-150**		**118**				

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1

Our Lab I.D.			95593.31				
Client Sample I.D.			S7-E1-0.5				
Date Sampled			12/27/2018				
Date Prepared			01/02/2019				
Preparation Method			3550B				
Date Analyzed			01/02/2019				
Matrix			Soil				
Units			ug/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Aroclor-1016 (PCB-1016)	125	250	ND				
Aroclor-1221 (PCB-1221)	125	250	ND				
Aroclor-1232 (PCB-1232)	125	250	ND				
Aroclor-1242 (PCB-1242)	125	250	ND				
Aroclor-1248 (PCB-1248)	125	250	ND				
Aroclor-1254 (PCB-1254)	125	250	ND				
Aroclor-1260 (PCB-1260)	125	250	ND				
Aroclor-1262 (PCB-1262)	125	250	ND				
Aroclor-1268 (PCB-1268)	125	250	ND				

Comment(s):
95593.31: Analyzed under dilution due to matrix interference

Our Lab I.D.			95593.31				
Surrogates	**%Rec.Limit**		**% Rec.**				
Decachlorobiphenyl	30-150		111				
Tetrachloro-m-xylene	30-150		93.6				

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C4

Our Lab I.D.			Method Blank	95593.01	95593.04	95593.07	95593.10
Client Sample I.D.				S7-S1-0.5	S7-S2-0.5	S7-S3-0.5	S7-S4-0.5
Date Sampled				12/27/2018	12/27/2018	12/27/2018	12/27/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	17.5	28.1	10.1	21.2

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C4

Our Lab I.D.			95593.13	95593.16	95593.19	95593.22	95593.25
Client Sample I.D.			S7-S5-0.5	S7-N1-0.5	S7-N2-0.5	S7-N3-0.5	S7-N4-0.5
Date Sampled			12/27/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	26.3	27.5	39.2	4.91J	5.37

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C4

Our Lab I.D.			95593.28	95593.31	95593.34		
Client Sample I.D.			S7-N5-0.5	S7-E1-0.5	S7-W1-0.5		
Date Sampled			12/28/2018	12/27/2018	12/27/2018		
Date Prepared			01/02/2019	01/02/2019	01/02/2019		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			01/03/2019	01/03/2019	01/03/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.5	5.0	6.24	22.0	19.8		

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C5

Our Lab I.D.			Method Blank	95593.01	95593.04	95593.07	95593.10
Client Sample I.D.				S7-S1-0.5	S7-S2-0.5	S7-S3-0.5	S7-S4-0.5
Date Sampled				12/27/2018	12/27/2018	12/27/2018	12/27/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	5.69	4.93	3.21	3.40

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C5

Our Lab I.D.			95593.13	95593.16	95593.19	95593.22	95593.25
Client Sample I.D.			S7-S5-0.5	S7-N1-0.5	S7-N2-0.5	S7-N3-0.5	S7-N4-0.5
Date Sampled			12/27/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	3.50	3.55	2.19	0.606	0.732

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C5

Our Lab I.D.			95593.28	95593.31	95593.34		
Client Sample I.D.			S7-N5-0.5	S7-E1-0.5	S7-W1-0.5		
Date Sampled			12/28/2018	12/27/2018	12/27/2018		
Date Prepared			01/02/2019	01/02/2019	01/02/2019		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			01/03/2019	01/03/2019	01/03/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	0.825	5.43	4.04		

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0102192C4; Dup or Spiked Sample: 95593.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**17.5**	**50.0**	**56.4**	**77.8**	**50.0**	**56.4**	**77.8**	**<1**	**75-125**	**<15**

QC Batch No: 0102192C4; Dup or Spiked Sample: 95593.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**50.0**	**49.4**	**98.8**	**50.0**	**49.1**	**98.2**	**<1**	**75-125**	**<15**	

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Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0102191C5; Dup or Spiked Sample: 95593.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**5.69**	**10.0**	**14.1**	**84.1**	**10.0**	**15.0**	**93.1**	**10.2**	**80-120**	**<15**

QC Batch No: 0102191C5; Dup or Spiked Sample: 95593.01; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**8.25**	**82.5**	**10.0**	**8.74**	**87.4**	**5.8**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **16**

Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	18.4	92.0	20.0	18.5	92.5	<1	40-150	<40
4,4'-DDT (DDT)	1.96	50.0	42.1	80.3	50.0	44.7	85.5	6.3	40-150	<40
Dieldrin	0.276	50.0	47.7	94.8	50.0	48.1	95.6	<1	40-150	<40
Endrin	0.00	50.0	65.0	130	50.0	65.5	131	<1	40-150	<40
Heptachlor	0.00	20.0	19.1	95.5	20.0	19.4	97.0	1.6	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	19.4	97.0	20.0	18.6	93.0	4.2	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	25.0	100	25.0	27.5	110	9.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	34.3	137	25.0	35.3	141	2.9	30-150	<40

QC Batch No: 010219EB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	14.9	74.5	20.0	16.1	80.5	7.7	50-150	<40	
4,4'-DDT (DDT)	50.0	29.9	59.8	50.0	30.0	60.0	<1	50-150	<40	
Dieldrin	50.0	39.7	79.4	50.0	42.4	84.8	6.6	50-150	<40	
Endrin	50.0	51.5	103	50.0	53.5	107	3.8	50-150	<40	
Heptachlor	20.0	15.7	78.5	20.0	16.3	81.5	3.8	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	16.7	83.5	20.0	17.3	86.5	3.5	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	20.7	82.8	25.0	20.6	82.4	<1	30-150	<40	
Tetrachloro-m-xylene	25.0	29.0	116	25.0	30.0	120	3.4	30-150	<40	

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QUALITY CONTROL RESULTS

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Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **17**

Project ID: 18-41-233-01
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95593	12/28/2018	CONVRS

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aroclor-1016 (PCB-1016)	0.00	500	478	95.6	500	429	85.8	10.8	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	396	79.2	500	307	61.4	25.3	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	24.6	98.4	25.0	17.9	71.6	31.5	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	28.0	112	25.0	26.0	104	7.4	30-150	<40

QC Batch No: 010219ZB1; Dup or Spiked Sample: 95577.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/02/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aroclor-1016 (PCB-1016)	500	457	91.4	50-150						
Aroclor-1260 (PCB-1260)	500	387	77.4	50-150						
Surrogates										
Decachlorobiphenyl	25.0	26.0	104	30-150						
Tetrachloro-m-xylene	25.0	26.8	107	30-150						

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Converse Consultants
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Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Number of Pages 3
Date Received 12/28/2018
Date Reported 01/08/2019

Job Number	Order Date	Client
95594	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110334

AETL JOB No. 95594

Page 1 of 1

COMPANY	CONVERSE
PROJECT MANAGER	JRZ
COMPANY ADDRESS	717 S. MYRTLEAN MONROVIA 91016
PHONE	626 930-1234
FAX	
PROJECT NAME	McKinley Comp Mod
PROJECT #	18-41-233-02
SITE NAME AND ADDRESS	McKinley ES, 7812 McKinley LA CA 90001
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6010 Ag
1	S11-1-0.5	95594.01	12/27/18	11:20	SOIL	~~1 SLEEVE~~ JAR		X
2	S11-1-2.0	95594.02		11:21				
3	S11-1-3.0	95594.03		11:22				
4	S11-2-0.5	95594.04		11:30				X
5	S11-2-2.0	95594.05		11:31				
6	S11-2-3.0	95594.06		11:32				
7	S12-1-0.5	95594.07		11:00				X
8	S12-1-2.0	95594.08		11:01				
9	S12-1-3.0	95594.09		11:02				
10	S12-2-0.5	95594.10		11:10				X
11	S12-2-2.0	95594.11		11:11				
12	S12-2-3.0	95594.12	↓	11:12	↓	↓		
13								
14								
15								

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	12	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

☒ NORMAL ☒ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	RELINQUISHED BY:
Signature:		Signature:	Signature:
Printed Name:	JOHN ZIEGLER	Printed Name:	Printed Name:
Date:	12/28/18 Time: 5:00	Date: Time:	Date: Time:
RECEIVED BY:		RECEIVED BY:	RECEIVED BY LABORATORY: AETL
Signature:		Signature:	Signature:
Printed Name:		Printed Name:	Printed Name:
Date:	Time:	Date: Time:	Date: 12/28/18 Time: 1700

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Converse
Project Name:
AETL Job Number: 95594
Date Received: 12/28/18 Received by: AM
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.4, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): _____
How are samples preserved: ☐ None, ☐ Ice , ☒ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		Y	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	1		

Explain all "No" answers for above questions:

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Ordered By

Converse Consultants **717 S. Myrtle Ave.** **Monrovia, CA 91016-**	**Project ID: 18-41-233-02** **Date Received 12/28/2018** **Date Reported 01/08/2019**
Telephone: (626)930-1200 **Attention: John Ziegler**	

Job Number	Order Date	Client
95594	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 12 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95594.01	S11-1-0.5	12/27/2018	Soil	1
95594.04	S11-2-0.5	12/27/2018	Soil	1
95594.07	S12-1-0.5	12/27/2018	Soil	1
95594.10	S12-2-0.5	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	01/04/2019	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95594.02	S11-1-2.0	12/27/2018	Soil	1
95594.03	S11-1-3.0	12/27/2018	Soil	1
95594.05	S11-2-2.0	12/27/2018	Soil	1
95594.06	S11-2-3.0	12/27/2018	Soil	1
95594.08	S12-1-2.0	12/27/2018	Soil	1
95594.09	S12-1-3.0	12/27/2018	Soil	1
95594.11	S12-2-2.0	12/27/2018	Soil	1
95594.12	S12-2-3.0	12/27/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/04/2019	2	Normal	--

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **2**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95594	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1

Our Lab I.D.			Method Blank	95594.01	95594.04	95594.07	95594.10
Client Sample I.D.				S11-1-0.5	S11-2-0.5	S12-1-0.5	S12-2-0.5
Date Sampled				12/27/2018	12/27/2018	12/27/2018	12/27/2018
Date Prepared			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/05/2019	01/05/2019	01/05/2019	01/05/2019	01/05/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	2.65	4.34	2.69	3.28

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **3**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95594	12/28/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/05/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**7.91**	**10.0**	**17.7**	**97.9**	**10.0**	**17.8**	**98.9**	**1.0**	**80-120**	**<15**

QC Batch No: 0103191C1; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/05/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**9.20**	**92.0**	**10.0**	**9.58**	**95.8**	**4.0**	**80-120**	**<15**	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Number of Pages	**10**
Date Received	**12/28/2018**
Date Reported	**01/08/2019**

Job Number	Order Date	Client
95597	12/28/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

110423

AETL JOB No. 95597

Page 1 of 1

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE AV MONROVIA 91016
PHONE: 626 930 1234
FAX:
PROJECT NAME: McKinley Comp Mod
PROJECT #: 18-41-233-02
SITE NAME AND ADDRESS: McKinley ES — 7812 McKinley AV LA CA 90001
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 8015 TPH	EPA 8260 VOCs	TEST INSTRUCTIONS & COMMENTS
1	UST-5	95597.01	12/20/18	9:20	Soil	1 sleeve		X		
2	UST-~~5~~10	95597.02		9:22				X	X	
3	UST-~~10~~15	95597.03		9:25				X		
4	UST-DUP	95597.04		9:30		+ endcaps		X	~~X~~	
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	5	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

☑ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	JOHN ZIEGLER		
Date / Time:	12/20/18 5:00		

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			ACTL
Printed Name:			AF
Date / Time:			12/28/18 1700

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Conversa
Project Name:
AETL Job Number: 95597
Date Received: 12/28/18 Received by: AM
Carrier: ☐ AETL Courier ☒ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☐ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.4°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): encore
How are samples preserved: ☐ None, ☐ Ice, ☒ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	Y		
2. Are the Sample labels legible?	Y		
3. Do samples match the COC?	Y		
4. Are the required analyses clear?	Y		
5. Is there enough samples for required analysis?	Y		
6. Are samples sealed with evidence tape?		N	
7. Are sample containers in good condition?	Y		
8. Are samples preserved?	Y		
9. Are samples preserved properly for the intended analysis?	Y		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	Y		

Explain all "No" answers for above questions:

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Ordered By

Converse Consultants **717 S. Myrtle Ave.** **Monrovia, CA 91016-**

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/28/2018
Date Reported 01/08/2019

Job Number	Order Date	Client
95597	12/28/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 12/28/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95597.01	UST-5	12/28/2018	Soil	1
95597.03	UST-15	12/28/2018	Soil	1
95597.04	UST-DUP	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015D) ^ C13-C40	01/04/2019	2	Normal	mg/Kg
(M8015G)	01/04/2019	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95597.02	UST-10	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8260B)	01/04/2019	2	Normal	ug/Kg
(M8015D) ^ C13-C40	01/04/2019	2	Normal	mg/Kg
(M8015G)	01/04/2019	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Converse Consultants
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Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **2**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1

Our Lab I.D.			Method Blank	**95597.02**			
Client Sample I.D.				UST-10			
Date Sampled				**12/28/2018**			
Date Prepared			**01/03/2019**	**12/28/2018**			
Preparation Method			**5030**	**5035A**			
Date Analyzed			**01/03/2019**	**01/03/2019**			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	**25**	**50**	**ND**	**ND**			
Benzene	**1.0**	**10.0**	**ND**	**ND**			
Bromobenzene (Phenyl bromide)	**5.0**	**10.0**	**ND**	**ND**			
Bromochloromethane	**5.0**	**10.0**	**ND**	**ND**			
Bromodichloromethane	**5.0**	**10.0**	**ND**	**ND**			
Bromoform (Tribromomethane)	**25**	**50**	**ND**	**ND**			
Bromomethane (Methyl bromide)	**15**	**30**	**ND**	**ND**			
2-Butanone (MEK)	**25**	**50**	**ND**	**ND**			
n-Butylbenzene	**5.0**	**10.0**	**ND**	**ND**			
sec-Butylbenzene	**5.0**	**10.0**	**ND**	**ND**			
tert-Butylbenzene	**5.0**	**10.0**	**ND**	**ND**			
Carbon Disulfide	**25**	**50**	**ND**	**ND**			
Carbon tetrachloride	**5.0**	**10.0**	**ND**	**ND**			
Chlorobenzene	**5.0**	**10.0**	**ND**	**ND**			
Chloroethane	**15**	**30**	**ND**	**ND**			
2-Chloroethyl vinyl ether	**50**	**50**	**ND**	**ND**			
Chloroform (Trichloromethane)	**5.0**	**10.0**	**ND**	**ND**			
Chloromethane (Methyl chloride)	**15**	**30**	**ND**	**ND**			
2-Chlorotoluene	**5.0**	**10.0**	**ND**	**ND**			
4-Chlorotoluene	**5.0**	**10.0**	**ND**	**ND**			
1,2-Dibromo-3-chloropropane (DBCP)	**5.0**	**10.0**	**ND**	**ND**			
Dibromochloromethane	**5.0**	**10.0**	**ND**	**ND**			
1,2-Dibromoethane (EDB)	**5.0**	**10.0**	**ND**	**ND**			
Dibromomethane	**5.0**	**10.0**	**ND**	**ND**			
1,2-Dichlorobenzene	**5.0**	**10.0**	**ND**	**ND**			
1,3-Dichlorobenzene	**5.0**	**10.0**	**ND**	**ND**			
1,4-Dichlorobenzene	**5.0**	**10.0**	**ND**	**ND**			
Dichlorodifluoromethane	**15**	**30**	**ND**	**ND**			

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ANALYTICAL RESULTS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1

Our Lab I.D.			Method Blank	95597.02			
Client Sample I.D.				UST-10			
Date Sampled				12/28/2018			
Date Prepared			01/03/2019	12/28/2018			
Preparation Method			5030	5035A			
Date Analyzed			01/03/2019	01/03/2019			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	2.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	ND			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	1.5	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			
1,2,3-Trichloropropane	1.0	5.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1

Our Lab I.D.			Method Blank	**95597.02**			
Client Sample I.D.				UST-10			
Date Sampled				**12/28/2018**			
Date Prepared			**01/03/2019**	**12/28/2018**			
Preparation Method			**5030**	**5035A**			
Date Analyzed			**01/03/2019**	**01/03/2019**			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,2,4-Trimethylbenzene	**5.0**	**10.0**	**ND**	**ND**			
1,3,5-Trimethylbenzene	**5.0**	**10.0**	**ND**	**ND**			
Vinyl Acetate	**25**	**50**	**ND**	**ND**			
Vinyl chloride (Chloroethene)	**5.0**	**10.0**	**ND**	**ND**			
o-Xylene	**1.0**	**10.0**	**ND**	**ND**			
m,p-Xylenes	**1.0**	**20.0**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**95597.02**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	**75-125**		**118**	**124**			
Dibromofluoromethane	**75-125**		**90.1**	**88.3**			
Toluene-d8	**75-125**		**119**	**118**			

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ANALYTICAL RESULTS

Ordered By

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Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 123118OB1

Our Lab I.D.			Method Blank	95597.01	95597.02	95597.03	95597.04
Client Sample I.D.				UST-5	UST-10	UST-15	UST-DUP
Date Sampled				12/28/2018	12/28/2018	12/28/2018	12/28/2018
Date Prepared			12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Preparation Method			5030	5030	5030	5030	5030
Date Analyzed			12/31/2018	12/31/2018	12/31/2018	12/31/2018	12/31/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	95597.01	95597.02	95597.03	95597.04
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		105	104	104	102	103

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ANALYTICAL RESULTS

Ordered By

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Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

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Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 010219DB1

Our Lab I.D.			Method Blank	95597.01	95597.02	95597.03	95597.04
Client Sample I.D.				UST-5	UST-10	UST-15	UST-DUP
Date Sampled				12/28/2018	12/28/2018	12/28/2018	12/28/2018
Date Prepared			01/02/2019	01/02/2019	01/02/2019	01/02/2019	01/02/2019
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			01/02/2019	01/02/2019	01/02/2019	01/03/2019	01/03/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	95597.01	95597.02	95597.03	95597.04
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		106	109	107	107	109

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
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Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200
Attn: John Ziegler
Page: **7**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1; Dup or Spiked Sample: 95597.02; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Benzene	0.00	50.0	54.5	109	50.0	48.9	97.8	10.8	75-125	<20
Carbon tetrachloride	0.00	50.0	54.5	109	50.0	48.8	97.6	11.0	75-125	<20
Chlorobenzene	0.00	50.0	58.0	116	50.0	53.5	107	8.1	75-125	<20
Chloroform (Trichloromethane)	0.00	50.0	37.9	75.8	50.0	33.6 M	67.2	12.0	75-125	<20
1,2-Dichlorobenzene	0.00	50.0	56.5	113	50.0	51.5	103	9.3	75-125	<20
1,1-Dichloroethane	0.00	50.0	35.7 M	71.4	50.0	28.5 M	57.0	22.4	75-125	<20
1,1-Dichloroethene	0.00	50.0	42.8	85.6	50.0	39.5	79.0	8.0	75-125	<20
cis-1,2-Dichloroethene	0.00	50.0	45.5	91.0	50.0	40.6	81.2	11.4	75-125	<20
Ethylbenzene	0.00	50.0	5.50	11.0	50.0	51.0	102	161.1	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	39.7	79.4	50.0	31.4 M	62.8	23.3	75-125	<20
n-Propylbenzene	0.00	50.0	60.5	121	50.0	54.0	108	11.4	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	57.5	115	50.0	51.5	103	11.0	75-125	<20
1,1,1-Trichloroethane	0.00	50.0	53.5	107	50.0	47.9	95.8	11.0	75-125	<20
1,1,2-Trichloroethane	0.00	50.0	51.0	102	50.0	43.5	87.0	15.9	75-125	<20
Trichloroethene	0.00	50.0	58.5	117	50.0	54.0	108	8.0	75-125	<20
1,2,4-Trimethylbenzene	0.00	50.0	55.5	111	50.0	51.0	102	8.5	75-125	<20
1,3,5-Trimethylbenzene	0.00	50.0	55.5	111	50.0	50.0	100	10.4	75-125	<20
o-Xylene	0.00	50.0	55.5	111	50.0	50.5	101	9.4	75-125	<20
m,p-Xylenes	0.00	100	117	117	100	103	103	12.7	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	61.0	122	50.0	60.0	120	1.7	75-125	<20
Dibromofluoromethane	0.00	50.0	41.8	83.6	50.0	42.1	84.2	<1	75-125	<20
Toluene-d8	0.00	50.0	56.0	112	50.0	53.5	107	4.6	75-125	<20

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QUALITY CONTROL RESULTS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0103192A1; Dup or Spiked Sample: 95597.02; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/03/2019; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	52.5	105	50.0	54.5	109	3.7	75-125	<20	
Carbon tetrachloride	50.0	50.5	101	50.0	53.5	107	5.8	75-125	<20	
Chlorobenzene	50.0	55.5	111	50.0	58.0	116	4.4	75-125	<20	
Chloroform (Trichloromethane)	50.0	42.7	85.4	50.0	44.0	88.0	3.0	75-125	<20	
1,2-Dichlorobenzene	50.0	55.5	111	50.0	56.0	112	<1	75-125	<20	
1,1-Dichloroethane	50.0	39.1	78.2	50.0	39.5	79.0	1.0	75-125	<20	
1,1-Dichloroethene	50.0	41.1	82.2	50.0	42.5	85.0	3.3	75-125	<20	
cis-1,2-Dichloroethene	50.0	47.7	95.4	50.0	49.0	98.0	2.7	75-125	<20	
Ethylbenzene	50.0	53.5	107	50.0	54.5	109	1.9	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	44.5	89.0	50.0	47.0	94.0	5.5	75-125	<20	
n-Propylbenzene	50.0	53.5	107	50.0	57.0	114	6.3	75-125	<20	
Toluene (Methyl benzene)	50.0	55.0	110	50.0	57.0	114	3.6	75-125	<20	
1,1,1-Trichloroethane	50.0	50.0	100	50.0	53.0	106	5.8	75-125	<20	
1,1,2-Trichloroethane	50.0	56.5	113	50.0	58.0	116	2.6	75-125	<20	
Trichloroethene	50.0	55.0	110	50.0	55.5	111	<1	75-125	<20	
1,2,4-Trimethylbenzene	50.0	48.6	97.2	50.0	51.0	102	4.8	75-125	<20	
1,3,5-Trimethylbenzene	50.0	48.4	96.8	50.0	51.5	103	6.2	75-125	<20	
o-Xylene	50.0	53.5	107	50.0	46.5	93.0	14.0	75-125	<20	
m,p-Xylenes	100	110	110	100	111	111	<1	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	58.5	117	50.0	62.0	124	5.8	75-125	<20	
Dibromofluoromethane	50.0	41.7	83.3	50.0	39.5	78.9	5.4	75-125	<20	
Toluene-d8	50.0	55.5	111	50.0	55.0	110	<1	75-125	<20	

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200
Attn: John Ziegler
Page: **9**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 010219DB1; Dup or Spiked Sample: 95597.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	470	94.0	500	505	101	7.2	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	102	102	100	102	102	<1	75-125	<20

QC Batch No: 010219DB1; Dup or Spiked Sample: 95597.04; LCS: Clean Sand; QC Prepared: 01/02/2019; QC Analyzed: 01/03/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	496	99.2	500	505	101	1.8	75-125	<20	
Surrogates										
Chlorobenzene	100	101	101	100	102	102	<1	75-125	<20	

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Site

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7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200
Attn: John Ziegler
Page: **10**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Med.

AETL Job Number	Submitted	Client
95597	12/28/2018	CONVRS

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 123118OB1; Dup or Spiked Sample: 95597.01A; LCS: Clean Sand; QC Prepared: 12/31/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	1.00	100	1.00	1.01	101	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0555	111	0.0500	0.0535	107	3.7	75-125	<20

QC Batch No: 123118OB1; Dup or Spiked Sample: 95597.01A; LCS: Clean Sand; QC Prepared: 12/31/2018; QC Analyzed: 12/31/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	1.01	101	1.00	0.995	99.5	1.5	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0535	107	0.0500	0.0570	114	6.3	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

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Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Number of Pages	**7**
Date Received	**12/31/2018**
Date Reported	**01/08/2019**

Job Number	Order Date	Client
95598	12/31/2018	CONVRS

Project ID: 18-41-233-02
Project Name: McKinley Comp. Mod.
Site: McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Enclosed please find results of analyses of 7 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

110338

AETL JOB No. 95598

Page 1 of 2

COMPANY	CONVERSE
PROJECT MANAGER	JRZ
COMPANY ADDRESS	717 S. MYRTLE AV
PHONE / FAX	626 930-1234
PROJECT NAME	McKinley Comp Mod
PROJECT #	18-41-233-02
SITE NAME AND ADDRESS	McKinley ES, 7812 McKinley AV. LA CA 90001
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6010 Pb
1	~~S3-W3-0.5~~								
2	~~S3-W3-0.5~~								
3	~~S5-5~~								
4	DUP1-0.5	95598.01	12/27/18		SOIL	1 JAR		X	X
5	DUP1-2.0	95598.02	↓		↓	↓			
6	DUP1-3.0	95598.03	↓		↓	↓			
7	DUP2-0.5	95598.04	12/27/18		↓	SLEEVE		X	X
8	DUP2-2.0	95598.05	↓		↓	↓			
9	DUP2-3.0	95598.06	↓		↓	↓			
10	DUP3-0.5	95598.07	12/27/18		↓	SLEEVE		X	X
11	DUP3-2.0	95598.08	↓		↓	↓			
12	DUP3-3.0	95598.09	↓		↓	↓			
13	DUP4-0.5	95598.10	12/28/18		↓	SLEEVE		X	X
14	DUP4-2.0	95598.11	↓		↓	↓			
15	DUP4-3.0	95598.12	↓		↓	↓			

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	12	PROPERLY COOLED (Y / N / NA)	Y
CUSTODY SEALS (Y / N / NA)	N	SAMPLES INTACT (Y / N / NA)	Y
RECEIVED IN GOOD COND. (Y / N)	Y	SAMPLES ACCEPTED (Y / N)	Y

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY ☐ PDF ☐ GEOTRACKER (GLOBAL ID) _____ ☐ OTHER (PLEASE SPECIFY) _____

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	JAN ZIEGLER		
Date / Time:	12-31-18 / 1100	/	12/31/18 / 1315
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			
Printed Name:			
Date / Time:	12/31/18 / 1100	/	12/31/18 / 1315

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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CHAIN OF CUSTODY RECORD

110341

AETL JOB No. 95598

COMPANY: CONVERSE
PROJECT MANAGER: JRZ
COMPANY ADDRESS: 717 S. MYRTLE
PHONE: 626 930 1234
FAX:
PROJECT NAME: McKinley Comp Mod
PROJECT #: 18-41-233-01
SITE NAME AND ADDRESS: McKinley ES, 7812 McKinley Av. LA CA 90001
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6010 Pb
1	DUP5-0.5	95598.13	12/28/18		SOIL	SLEEVE		X	X
2	DUP5-2.0	95598.14	↓		↓	↓			
3	DUP5-3.0	95598.15	↓		↓	↓			
4	DUP6-0.5	95598.16	↓		↓	JAR		X	X
5	DUP6-2.0	95598.17	↓		↓	↓			
6	DUP6-3.0	95598.18	↓		↓	↓			
7	DUP7-0.5	95598.19	↓		↓	↓		X	X
8	DUP7-2.0	95598.20	↓		↓	↓			
9	DUP7-3.0	95598.21	↓		↓	↓			
10									
11									
12									
13									
14									
15									

TEST INSTRUCTIONS & COMMENTS:

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	9	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

☒ NORMAL ☐ RUSH ☐ SAME DAY ☐ NEXT DAY ☐ 2 DAYS ☐ 3 DAYS

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☐ PDF
☐ GEOTRACKER (GLOBAL ID) ________
☐ OTHER (PLEASE SPECIFY) ________

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: JOHN Ziegler	Printed Name:	Printed Name: [illegible]
Date: 12-31-18 Time: 1100	Date: Time:	Date: 12-31-18 Time: 1315

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature: [signature]	Signature:	Signature: AETL
Printed Name: [illegible]	Printed Name:	Printed Name: AT
Date: 12-31-18 Time: 1100	Date: Time:	Date: 12/31/18 Time: 1315

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator

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COOLER RECEIPT FORM

Client Name: Converse
Project Name:
AETL Job Number: 95598
Date Received: 12/31/18 Received by: AT
Carrier: ☑ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.4°C, No 2: _____, No 3: _____
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): Sleeves
How are samples preserved: ☐ None, ☐ Ice , ☑ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?		✓	
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

Explain all "No" answers for above questions:

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Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attention: John Ziegler

Project ID: 18-41-233-02
Date Received 12/31/2018
Date Reported 01/08/2019

Job Number	Order Date	Client
95598	12/31/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 21 samples with the following specification on 12/31/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95598.01	DUP1-0.5	12/27/2018	Soil	1
95598.04	DUP2-0.5	12/27/2018	Soil	1
95598.07	DUP3-0.5	12/27/2018	Soil	1
95598.10	DUP4-0.5	12/28/2018	Soil	1
95598.13	DUP5-0.5	12/28/2018	Soil	1
95598.16	DUP6-0.5	12/28/2018	Soil	1
95598.19	DUP7-0.5	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	01/07/2019	2	Normal	mg/Kg
(6020) ^ AS	01/07/2019	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
95598.02	DUP1-2.0	12/27/2018	Soil	1
95598.03	DUP1-3.0	12/27/2018	Soil	1
95598.05	DUP2-2.0	12/27/2018	Soil	1
95598.06	DUP2-3.0	12/27/2018	Soil	1
95598.08	DUP3-2.0	12/27/2018	Soil	1
95598.09	DUP3-3.0	12/27/2018	Soil	1
95598.11	DUP4-2.0	12/28/2018	Soil	1
95598.12	DUP4-3.0	12/28/2018	Soil	1
95598.14	DUP5-2.0	12/28/2018	Soil	1
95598.15	DUP5-3.0	12/28/2018	Soil	1
95598.17	DUP6-2.0	12/28/2018	Soil	1
95598.18	DUP6-3.0	12/28/2018	Soil	1
95598.20	DUP7-2.0	12/28/2018	Soil	1
95598.21	DUP7-3.0	12/28/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	01/07/2019	2	Normal	--

Continued

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Ordered By

Converse Consultants **717 S. Myrtle Ave.** **Monrovia, CA 91016-**

Project ID: 18-41-233-02 **Date Received 12/31/2018** **Date Reported 01/08/2019**

Telephone: (626)930-1200
Attention: John Ziegler

Job Number	Order Date	Client
95598	12/31/2018	CONVRS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **2**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0104192C6

Our Lab I.D.			Method Blank	95598.01	95598.04	95598.07	95598.10
Client Sample I.D.				DUP1-0.5	DUP2-0.5	DUP3-0.5	DUP4-0.5
Date Sampled				12/27/2018	12/27/2018	12/27/2018	12/28/2018
Date Prepared			01/04/2019	01/04/2019	01/04/2019	01/04/2019	01/04/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/04/2019	01/04/2019	01/04/2019	01/04/2019	01/04/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	114	2.97J	4.12J	6.43

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Telephone: (626)930-1200
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Los Angeles, CA 90001

Page: **3**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0104192C6

Our Lab I.D.			95598.13	95598.16	95598.19		
Client Sample I.D.			DUP5-0.5	DUP6-0.5	DUP7-0.5		
Date Sampled			12/28/2018	12/28/2018	12/28/2018		
Date Prepared			01/04/2019	01/04/2019	01/04/2019		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			01/04/2019	01/04/2019	01/04/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.5	5.0	28.6	4.61J	8.00		

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Page: **4**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1

Our Lab I.D.			Method Blank	95598.01	95598.04	95598.07	95598.10
Client Sample I.D.				DUP1-0.5	DUP2-0.5	DUP3-0.5	DUP4-0.5
Date Sampled				12/27/2018	12/27/2018	12/27/2018	12/28/2018
Date Prepared			01/03/2019	01/03/2019	01/03/2019	01/03/2019	01/03/2019
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			01/05/2019	01/05/2019	01/05/2019	01/05/2019	01/05/2019
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	7.91	0.955	1.27	1.23

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ANALYTICAL RESULTS

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Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **5**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1

Our Lab I.D.			95598.13	95598.16	95598.19		
Client Sample I.D.			DUP5-0.5	DUP6-0.5	DUP7-0.5		
Date Sampled			12/28/2018	12/28/2018	12/28/2018		
Date Prepared			01/03/2019	01/03/2019	01/03/2019		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			01/05/2019	01/05/2019	01/05/2019		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	1.78	0.966	20.1		

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Telephone: (626)930-1200
Attn: John Ziegler
Page: **6**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0104192C6; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/04/2019; QC Analyzed: 01/04/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**114**	**50.0**	**140 M**	**52.0**	**50.0**	**140 M**	**52.0**	**<1**	**75-125**	**<15**

QC Batch No: 0104192C6; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/04/2019; QC Analyzed: 01/04/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**50.0**	**47.7**	**95.4**	**50.0**	**48.4**	**96.8**	**1.5**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016-

Telephone: (626)930-1200
Attn: John Ziegler

Site

McKinley ES
7812 McKinley Ave.
Los Angeles, CA 90001

Page: **7**

Project ID: 18-41-233-02
Project Name: McKinley Comp. Mod.

AETL Job Number	Submitted	Client
95598	12/31/2018	CONVRS

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0103191C1; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/05/2019; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**7.91**	**10.0**	**17.7**	**97.9**	**10.0**	**17.8**	**98.9**	**1.0**	**80-120**	**<15**

QC Batch No: 0103191C1; Dup or Spiked Sample: 95598.01; LCS: Clean Sand; QC Prepared: 01/03/2019; QC Analyzed: 01/05/2019; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**10.0**	**9.20**	**92.0**	**10.0**	**9.58**	**95.8**	**4.0**	**80-120**	**<15**	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

LA Testing
520 Mission Street, South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com pasadenalab@latesting.com

LA Testing Order: 321900413
CustomerID: 32CONV56
CustomerPO:
ProjectID:

Attn: **John Ziegler**
Converse Consultants
717 S Myrtle Avenue
Monrovia, CA 91016

Phone: (626) 930-1200
Fax: (626) 930-1212
Received: 01/03/19 4:45 PM
Analysis Date: 1/10/2019
Collected:

Project: **18-41-233-02 LAUSD/McKinley ES**

Test Report: Asbestos Analysis via Polarized Light Microscopy, Qualitative

Sample	Description	Appearance	Result	Notes
S3E1 0.5 *321900413-0001*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
S3W2 0.5 *321900413-0002*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
S4S2 0.5 *321900413-0003*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
S2N2 0.5 *321900413-0004*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
S5W1 0.5 *321900413-0005*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
PG11 0.5 *321900413-0006*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
PG2 0.5 *321900413-0007*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
PG8 0.5 *321900413-0008*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
PG19 0.5 *321900413-0009*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	

Analyst(s)

Guillermo Hernandez (5)
Rosa Mendoza (10)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

LA Testing recommends that soil samples reported as "ND" be tested by the EPA Screening Method/Qualitative. The above report relates only to the items tested. This report may not be reproduced, except in full, without written approval by LA Testing, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government. Samples received in good condition unless otherwise noted.

Samples analyzed by LA Testing South Pasadena, CA

Initial report from 01/10/2019 10:59:43

LA Testing
520 Mission Street, South Pasadena, CA 91030
Phone/Fax: (323) 254-9960 / (323) 254-9982
http://www.LATesting.com pasadenalab@latesting.com

LA Testing Order: 321900413
CustomerID: 32CONV56
CustomerPO:
ProjectID:

Attn: **John Ziegler**
Converse Consultants
717 S Myrtle Avenue
Monrovia, CA 91016

Phone: (626) 930-1200
Fax: (626) 930-1212
Received: 01/03/19 4:45 PM
Analysis Date: 1/10/2019
Collected:

Project: **18-41-233-02 LAUSD/McKinley ES**

Test Report: Asbestos Analysis via Polarized Light Microscopy, Qualitative

Sample	Description	Appearance	Result	Notes
PG24 0.5 *321900413-0010*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
S7N1 0.5 *321900413-0011*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
S7S5 0.5 *321900413-0012*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
S9W1 0.5 *321900413-0013*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
S5N2 0.5 *321900413-0014*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	
PG20 0.5 *321900413-0015*	Soil Depth 0.5 ft.	Brown Non-Fibrous Homogeneous	**None Detected**	

This is a qualitative soil analysis method. Due to the heterogeneity of the samples there is a significant chance for quantification errors and/or false negatives with this method.

Analyst(s)

Guillermo Hernandez (5)
Rosa Mendoza (10)

Jerry Drapala Ph.D, Laboratory Manager
or other approved signatory

Samples analyzed by LA Testing South Pasadena, CA

Initial report from 01/10/2019 10:59:43

OrderID: 321900413

Asbestos Chain of Custody

LA Testing Order Number *(Lab Use Only)*:

#321900413

LA TESTING
520 MISSION STREET
S. PASADENA, CA 91030
PHONE: (323) 254-9960
FAX: (323) 254-9982

Company : Converse Consultants		**LA Testing-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*	
Street: 717 S Myrtle Avenue			
City: Monrovia	**State/Province: CA**	**Zip/Postal Code: 91061**	**Country: USA**
Report To (Name): John Ziegler		**Fax #:**	
Telephone #: (626) 807-3416		**Email Address: jziegler@converseconsultants.com**	
Project Name/Number: 18-41-233-02 LAUSD/McKinley ES			
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:**	**U.S. State Samples Taken:**	

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☒ 1 Week ☐ 2 Week

**For TEM Air 3 hours through 6 hours, please call ahead to schedule.*There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with LA Testing's Terms and Conditions located in the Analytical Price Guide.*

PCM - Air
- ☐ NIOSH 7400
- ☐ w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☒ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ **4-4.5hr TAT** (AHERA only)
- ☐ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☐ TEM Mass Analysis-EPA 600 sec. 2.5

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% *sensitivity*)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: | **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
S3 E1 0.5'	Soil Depth - 0.5 ft		
S3 W2 0.5			
S4 S2 0.5			
S2 N2 0.5			
S5 W1 0.5			
PG 11 0.5			
PG 2 0.5			
PG 8 0.5			

Client Sample # (s): - **Total # of Samples:** 15

Relinquished (Client): [signature] **Date:** 1/3/19 **Time:** 16:43

Received (Lab): T. P (WI) **Date:** 1-3-19 **Time:** 4:45pm

Comments/Special Instructions: PLM Qualitative Analysis for Soils

Page 1 of 2 pages

Controlled Document – Asbestos COC – R2 – 1/12/2010

OrderID: 321900413

Asbestos Chain of Custody

LA Testing Order Number *(Lab Use Only)*:

#321900413

LA TESTING
520 MISSION STREET
S. PASADENA, CA 91030
PHONE: (323) 254-9960
FAX: (323) 254-9982

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
PG19 0.5	Soil Depth 0.5 ft.		
PG24 0.5			
S7N1 0.5			
S7S5 0.5			
S9W1 0.5			
S5N2 0.5			
PG20 0.5			

***Comments/Special Instructions:**

Page 2 of 2 pages

ProUCL Calculations

Appendix E

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	1/15/2019 7:58:17 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Pb

General Statistics

Total Number of Observations	52	Number of Distinct Observations	48
Number of Detects	47	Number of Non-Detects	5
Number of Distinct Detects	47	Number of Distinct Non-Detects	1
Minimum Detect	2.88	Minimum Non-Detect	2.5
Maximum Detect	114	Maximum Non-Detect	2.5
Variance Detects	444.1	Percent Non-Detects	9.615%
Mean Detects	21.84	SD Detects	21.07
Median Detects	17.5	CV Detects	0.965
Skewness Detects	2.155	Kurtosis Detects	6.776
Mean of Logged Detects	2.673	SD of Logged Detects	0.939

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.792	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.946	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.184	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.129	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	19.98	Standard Error of Mean	2.891
SD	20.62	95% KM (BCA) UCL	24.8
95% KM (t) UCL	24.83	95% KM (Percentile Bootstrap) UCL	25.06
95% KM (z) UCL	24.74	95% KM Bootstrap t UCL	26.23
90% KM Chebyshev UCL	28.66	95% KM Chebyshev UCL	32.58
97.5% KM Chebyshev UCL	38.04	99% KM Chebyshev UCL	48.75

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.814	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.771	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.141	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.132	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.359	k star (bias corrected MLE)	1.286
Theta hat (MLE)	16.08	Theta star (bias corrected MLE)	16.98
nu hat (MLE)	127.7	nu star (bias corrected)	120.9
MLE Mean (bias corrected)	21.84	MLE Sd (bias corrected)	19.26

Gamma Kaplan-Meier (KM) Statistics

53				k hat (KM)	0.939				nu hat (KM)	97.63	
54			Approximate Chi Square Value (97.63, α)		75.84			Adjusted Chi Square Value (97.63, β)		75.29	
55			95% Gamma Approximate KM-UCL (use when n>=50)		25.73			95% Gamma Adjusted KM-UCL (use when n<50)		25.91	
56											
57					Gamma ROS Statistics using Imputed Non-Detects						
58					GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs						
59					GROS may not be used when kstar of detected data is small such as < 0.1						
60					For such situations, GROS method tends to yield inflated values of UCLs and BTVs						
61					For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates						
62				Minimum	0.01				Mean	19.74	
63				Maximum	114				Median	11.45	
64				SD	21.04				CV	1.066	
65				k hat (MLE)	0.61				k star (bias corrected MLE)	0.588	
66				Theta hat (MLE)	32.35				Theta star (bias corrected MLE)	33.58	
67				nu hat (MLE)	63.47				nu star (bias corrected)	61.14	
68				MLE Mean (bias corrected)	19.74				MLE Sd (bias corrected)	25.75	
69									Adjusted Level of Significance (β)	0.0454	
70			Approximate Chi Square Value (61.14, α)		44.16			Adjusted Chi Square Value (61.14, β)		43.75	
71			95% Gamma Approximate UCL (use when n>=50)		27.34			95% Gamma Adjusted UCL (use when n<50)		27.59	
72											
73					Lognormal GOF Test on Detected Observations Only						
74				Shapiro Wilk Test Statistic	0.953				Shapiro Wilk GOF Test		
75				5% Shapiro Wilk Critical Value	0.946				Detected Data appear Lognormal at 5% Significance Level		
76				Lilliefors Test Statistic	0.12				Lilliefors GOF Test		
77				5% Lilliefors Critical Value	0.129				Detected Data appear Lognormal at 5% Significance Level		
78					Detected Data appear Lognormal at 5% Significance Level						
79											
80					Lognormal ROS Statistics Using Imputed Non-Detects						
81				Mean in Original Scale	19.91				Mean in Log Scale	2.464	
82				SD in Original Scale	20.89				SD in Log Scale	1.105	
83			95% t UCL (assumes normality of ROS data)		24.76			95% Percentile Bootstrap UCL		24.94	
84				95% BCA Bootstrap UCL	26.29				95% Bootstrap t UCL	26.01	
85				95% H-UCL (Log ROS)	31.52						
86											
87					UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed						
88				KM Mean (logged)	2.504				95% H-UCL (KM -Log)	28.88	
89				KM SD (logged)	1.024				95% Critical H Value (KM-Log)	2.337	
90				KM Standard Error of Mean (logged)	0.144						
91											
92					DL/2 Statistics						
93				DL/2 Normal					DL/2 Log-Transformed		
94				Mean in Original Scale	19.86				Mean in Log Scale	2.437	
95				SD in Original Scale	20.93				SD in Log Scale	1.152	
96				95% t UCL (Assumes normality)	24.73				95% H-Stat UCL	33.18	
97					DL/2 is not a recommended method, provided for comparisons and historical reasons						
98											
99					Nonparametric Distribution Free UCL Statistics						
100					Detected Data appear Lognormal Distributed at 5% Significance Level						
101											
102					Suggested UCL to Use						
103				95% KM (Chebyshev) UCL	32.58						
104											

	A	B	C	D	E	F	G	H	I	J	K	L
105	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
106	Recommendations are based upon data size, data distribution, and skewness.											
107	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
108	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
109												

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	1/15/2019 7:50:36 AM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

As

General Statistics

Total Number of Observations	90	Number of Distinct Observations	89
		Number of Missing Observations	0
Minimum	0.606	Mean	6.129
Maximum	77.6	Median	2.78
SD	12.03	Std. Error of Mean	1.268
Coefficient of Variation	1.963	Skewness	4.329

Normal GOF Test

Shapiro Wilk Test Statistic	0.459	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.326	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0934	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	8.237	95% Adjusted-CLT UCL (Chen-1995)	8.834
		95% Modified-t UCL (Johnson-1978)	8.334

Gamma GOF Test

A-D Test Statistic	5.194	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.792	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.189	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.0978	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.777	k star (bias corrected MLE)	0.758
Theta hat (MLE)	7.892	Theta star (bias corrected MLE)	8.084
nu hat (MLE)	139.8	nu star (bias corrected)	136.5
MLE Mean (bias corrected)	6.129	MLE Sd (bias corrected)	7.039
		Approximate Chi Square Value (0.05)	110.5
Adjusted Level of Significance	0.0473	Adjusted Chi Square Value	110.1

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	7.571	95% Adjusted Gamma UCL (use when n<50)	7.597

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.923	**Shapiro Wilk Lognormal GOF Test**

53			5% Shapiro Wilk P Value	1.4959E-5			Data Not Lognormal at 5% Significance Level				
54			Lilliefors Test Statistic	0.0936			**Lilliefors Lognormal GOF Test**				
55			5% Lilliefors Critical Value	0.0934			Data Not Lognormal at 5% Significance Level				
56			Data Not Lognormal at 5% Significance Level								
57											
58			**Lognormal Statistics**								
59			Minimum of Logged Data	-0.501			Mean of logged Data	1.046			
60			Maximum of Logged Data	4.352			SD of logged Data	1.097			
61											
62			**Assuming Lognormal Distribution**								
63			95% H-UCL	6.817			90% Chebyshev (MVUE) UCL	7.333			
64			95% Chebyshev (MVUE) UCL	8.326			97.5% Chebyshev (MVUE) UCL	9.705			
65			99% Chebyshev (MVUE) UCL	12.41							
66											
67			**Nonparametric Distribution Free UCL Statistics**								
68			Data do not follow a Discernible Distribution (0.05)								
69											
70			**Nonparametric Distribution Free UCLs**								
71			95% CLT UCL	8.215			95% Jackknife UCL	8.237			
72			95% Standard Bootstrap UCL	8.096			95% Bootstrap-t UCL	9.56			
73			95% Hall's Bootstrap UCL	9.022			95% Percentile Bootstrap UCL	8.346			
74			95% BCA Bootstrap UCL	9.005							
75			90% Chebyshev(Mean, Sd) UCL	9.934			95% Chebyshev(Mean, Sd) UCL	11.66			
76			97.5% Chebyshev(Mean, Sd) UCL	14.05			99% Chebyshev(Mean, Sd) UCL	18.75			
77											
78			**Suggested UCL to Use**								
79			95% Chebyshev (Mean, Sd) UCL	11.66							
80											
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)										
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.										
84	For additional insight the user may want to consult a statistician.										
85											