

SUPPLEMENTAL SITE INVESTIGATION
COLFAX CHARTER ELEMENTARY SCHOOL
PERIMETER UPGRADE PROJECT
11724 ADDISON STREET
VALLEY VILLAGE, CALIFORNIA 91607

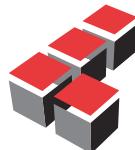
Prepared For:

LOS ANGELES UNIFIED SCHOOL DISTRICT

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

Project No. 11640.008

January 17, 2019



Leighton Consulting, Inc.

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

Attention: Mr. Andrew Modugno

**Subject: Supplemental Site Investigation
Colfax Charter Elementary School Perimeter Upgrade Project,
11724 Addison Street, Valley Village, California 91607**

Leighton Consulting, Inc. is pleased to present this Supplemental Site Investigation Report for the subject site which documents historical site land use, outlines the approach and data collected as part of the recently concluded site assessment, and recommends further action be taken to address impacted soil at the property.

If you have any questions regarding this report, please do not hesitate to contact the undersigned at your earliest convenience. We appreciate the opportunity to be of service to the District.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

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Associate Geologist

RES/RAL/Ir



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Distribution: Addressee (3 hardcopies) c/o Andrew Modugno

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LIST OF ABBREVIATIONS/ACRONYMS

ACM	asbestos containing material
amsl	above mean sea level
AQMD	South Coast Air Quality Management District
bgs	below ground surface
Cal/EPA	California Environmental Protection Agency
CDPH	California Department of Public Health
COC	chemical of concern
COPC	chemical of potential concern
District	Los Angeles Unified School District
DOT	Department of Transportation
DRO	diesel range organics
DTSC	Department of Toxic Substances Control
DTSC SL	DTSL-Modified Screening Level
ESA	Environmental Site Assessment
ESL	SFRWQCB Environmental Screening Level
GRO	gasoline range organics
HASP	Site-specific health and safety plan
IDW	investigation derived waste
LAUSD	Los Angeles Unified School District
LBP	lead-based paint
Leighton	Leighton Consulting Inc.
mg/kg	milligram per kilogram
µg/kg	microgram per kilogram
MDL	method detection limit
OCPs	organochlorine pesticides
OEHS	Office of Environmental Health and Safety
ORO	oil range organics
PCBs	Polychlorinated Biphenyls
PEA	Preliminary Endangerment Assessment
PPE	personal protective equipment
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental condition
RSL	US EPA Regional Screening Level (residential)
School property	Colfax Charter Elementary School Campus

SFRWQCB	San Francisco Bay Regional Water Quality Control Board
Site	Colfax Charter Elementary School Perimeter Upgrade Project Area
SSI	Supplemental Site Investigation
STLC	soluble threshold limit concentration
Strongarm	Strongarm Environmental Services, Inc.
TPH	Total petroleum hydrocarbons
TTCL	total threshold limit concentration
UCL	upper confidence limit
USA	Underground Service Alert

EXECUTIVE SUMMARY

This Supplemental Site Investigation (SSI) Report summarizes historical site land use and outlines the approach utilized and data collected as part of the recently concluded assessment conducted for the Colfax Charter Elementary School Perimeter Upgrade Project (the ‘Site’, Figures 1 and 2). The Site consists of the perimeter area of the Colfax Charter Elementary School property (hereinafter also referred to as ‘the School property’), which is located at 11724 Addison Street, Valley Village, California 91607.

The School property was formerly used as an arboretum from at least 1928 to 1940 and included a single-family dwelling in the center of the property. LAUSD purchased the property in 1949 and has operated a school at the property since approximately 1951. Prior to 1928, the land was undeveloped. The majority of the School property is paved and currently developed with 15 various school buildings, approximately six (6) intermodal containers used for storage, playground areas and an animal sanctuary. The area surrounding the School property is mainly residential.

The primary objectives of this SSI were to assess shallow soil for potential environmental concerns and to evaluate overall Site health risk based on soil analytical screening results for chemicals of potential concern (COPCs), including lead, arsenic, mercury, total petroleum hydrocarbons (TPH), organochlorine pesticides (OCPs), and polychlorinated biphenyls (PCBs).

Between October 27 and December 21, 2018, forty (40) soil borings were advanced to a maximum depth of three (3) feet below ground surface (bgs) using a hand auger. Boring locations are shown on Figure 2. Soil samples were collected from depth intervals 0.5, 1.5 and 3 feet bgs and select samples were analyzed for COPCs. The soil matrix analytical results (Table 1) indicate that COPCs at the Site were either below laboratory detection limits or below regulatory screening levels with the exception of arsenic, diesel-range organics (DRO), chlordane, and dieldrin.

Based on the SSI sampling results (Tables 1 through 3), elevated levels of arsenic, DRO, chlordane, and dieldrin were reported for soil in limited areas at the Site (Figures 3 and 4) and further action appears warranted. A removal action (soil excavation) is recommended to target the four areas (adjacent to Borings PER1, PER12, PER14, and PER22) where impacted soils were identified above regulatory screening levels (Figures 4, 5, and 6). The details regarding the recommended soil excavation and confirmation sampling activities are presented in Section 7.0. Soil generated from the proposed remedial excavation areas should be appropriately secured from public access,

sampled in accordance with District waste characterization procedures, and profiled for offsite disposal at an approved landfill.

1.0 INTRODUCTION

This Supplemental Site Investigation (SSI) Report (hereinafter also referred to as ‘the report’) summarizes historical site land use and outlines the approach utilized and data collected as part of the recently concluded assessment conducted at the Colfax Charter Elementary Perimeter Upgrade Project (the ‘Site’, Figures 1, and 2).

This report was prepared by Leighton Consulting Inc. (Leighton) on behalf of the Los Angeles Unified School District (LAUSD or the ‘District’) in general conformance with various existing guidance documents related to site assessment, characterization and investigation published by the California Environmental Protection Agency (Cal/EPA) – Department of Toxic Substances Control (DTSC, 2015). Pertinent references related to the Site are listed in Appendix A.

1.1 Site Description

The Site is part of the Colfax Charter Elementary School property (hereinafter also referred to as ‘the School property’), which is located at 11724 Addison Street, Valley Village, California 91607. The School property is identified by the Los Angeles County Assessor’s Office with Assessor’s ID Number (AIN) 2355-013-900 and occupies 8.1 acres. The property is owned and operated by LAUSD.

The Site consists of the perimeter area around the School property boundary and represents proposed development areas associated with the Colfax Charter Elementary School Perimeter Upgrade Project. A portion of the Site along the eastern property boundary was previously investigated in 2016 during a separate Preliminary Endangerment Assessment (PEA) that was completed to assess environmental conditions in two areas at the School property as part of the Colfax Charter Elementary School Classroom Addition Project (areas previously investigated are outlined in yellow on Figure 2).

1.2 Background

The School property was formerly used as an arboretum from at least 1928 to 1940 and included a single-family dwelling in the center of the property. LAUSD purchased the property in 1949 and has operated a school at the property since approximately 1951. Prior to 1928 the land was undeveloped. The majority of the School property is paved and currently developed with 15 various school

buildings, approximately six (6) intermodal containers used for storage, playground areas and an animal sanctuary. The area surrounding the School property is mainly residential.

WorleyParsons completed a Phase I Environmental Site Assessment (ESA) for the School property in January 2016. Findings from the Phase I ESA are discussed in Section 1.5, below. In 2016, Leighton prepared a PEA Equivalent Document for two areas on the campus as part of the Colfax Charter Elementary School Classroom Addition Project.

The current Site contact related to the environmental matters is listed below:

Mr. Andrew Modugno
Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

1.3 Regional Geology and Hydrogeology

The School property is located at an approximate elevation of 633 feet above mean sea level (amsl), and the local topography generally slopes toward the southeast (WorleyParsons, 2016). The School property is located geographically in the southeastern portion of the San Fernando Valley area approximately 1.5 miles north of the Santa Monica Mountains. This area falls within the Transverse Ranges Geomorphic Province of Southern California (DWR, 1961). The Site is underlain by interbedded layers of Quaternary, unconsolidated and poorly sorted sand, silty sand and silty clay from the surface to 71 feet below ground surface (bgs; WorleyParsons, 2016).

The School property is located within the San Fernando Valley Groundwater Basin. The nearest groundwater well, Observation Well 3831J, is located approximately 840 feet north of the School property. Groundwater in this well was measured at approximately 133.70 feet bgs on December 3, 2009 (WorleyParsons, 2016). Site-specific groundwater data was not available for review.

1.4 Environmental Setting

A Phase I ESA was completed for the School property on January 21, 2016 by WorleyParsons (WorleyParsons, 2016). The purpose of the Phase I ESA was to identify recognized environmental conditions (RECs) in order to assist in the evaluation of historical land use, assess potential environmental impacts on- and off-site, and determine if any potential environmental impacts may pose a threat to on-site occupants, off-site individuals and the environment. No other environmental investigations for the School property were identified during the Phase I ESA. Information pertaining to the School property as determined by the Phase I ESA is summarized below.

1.4.1 School Property

The Phase I ESA includes a review of historical aerial photographs, topographic maps and Sanborn® maps for the School property. According to the Phase I ESA, historical use of the School property from at least 1928 to 1940 included an arboretum with a single-family dwelling located in the center portion of the property. The property was purchased by LAUSD in 1949, and has operated as a school since approximately 1951. Currently, the majority of the School property is paved and is developed with various school buildings, intermodal containers used for storage, playground areas and an animal sanctuary. The findings of the Phase I ESA are discussed in Section 1.5, below.

1.4.2 Site

The Site generally consists of landscaped areas or planter spaces on the north, west, east, and south margins of the School property. The east margin of the School property includes a paved section associated with a parking lot.

The District plans to redevelop the School property perimeter as part of the Colfax Charter Elementary School Perimeter Upgrade Project. Planned upgrades included irrigation modifications, possible tree removal, and other changes to landscaping. Leighton was contracted by the District to complete a SSI to characterize soil in advance of these planned perimeter upgrades.

1.5 Discussion of Phase I ESA and Previous PEA Equivalent Items

The Phase I ESA found no evidence of the storage or release of hazardous materials during the on-site inspection at the School property with the exception of the storage of small quantities of gasoline, cleaning chemicals and oil storage as janitorial supplies. During review of regulatory databases, Colfax Charter Elementary School was identified in the Phase I ESA as a large quantity waste generator, as a result of past school renovation activities, which included the abatement of asbestos, lead-based paint (LBP) and polychlorinated biphenyl (PCB) containing equipment. Based on the site reconnaissance and records reviewed as part of the Phase I ESA, the following RECs were identified:

- Potential presence of LBP residue in shallow soils around the drip lines of the existing and former buildings at the Site.
- Potential presence of organochlorine pesticides (OCPs) in shallow soils around the foundation of the existing and former buildings at the Site and in areas of former horticulture/agriculture at the School property.
- Potential presence of arsenic in shallow soils under pavement at the School property from possible historic use of arsenical herbicides.
- Potential presence of asbestos containing material (ACM) in building materials at the School property.

A hazardous material survey was recommended in the Phase I ESA to address concerns regarding hazardous materials in construction materials (ACM, LBP, and universal wastes). The hazardous material survey is not part of Leighton's scope for this SSI.

DTSC guidance indicates that LBP residue from paint or surface coatings may be present in soil around school structures that are adjacent or near unpaved areas where runoff could occur and were constructed prior to January 1993 (DTSC, 2006). OCPs were commonly used as insecticides for termite control, around structures between 1948 and 1989 (DTSC, 2006). PCBs were used widely in caulking and elastic sealant materials, particularly from 1950 through the 1970s until the manufacturing of PCBs was banned in 1979. DTSC guidance indicates that PCBs may exist in soil near exterior caulking present in buildings meeting the age criteria and adjacent to unpaved areas (DTSC, 2006). PCBs in shallow

soil are commonly evaluated at the Phase I ESA Addendum/PEA Equivalent stage of assessment at school sites that meet the age criteria.

Leighton was contracted by the District in 2016 to complete a PEA Equivalent study to address soil concerns identified in the Phase I ESA, specifically to collect shallow soil samples within two areas referred to as the east and west development areas (delineated in yellow on Figure 2). The goal of the study was to assess potential environmental concerns associated with shallow soil that may be encountered during the Colfax Charter Elementary School Classroom Addition Project. Between March 21 and 22, 2016, sixty-one (61) soil borings were advanced to a maximum depth of 2.5 feet bgs using a hand auger. Soil samples were collected from 0.5, 1.5 and 2.5 feet bgs and select samples were analyzed for COPCs including lead, arsenic, OCPs, and PCBs. From these samples, all of the 0.5 and 1.5 feet bgs samples were analyzed along with 4 of the 2.5 feet bgs samples for lead, arsenic, and/or OCPs. Approximately 10% of the 0.5 feet samples (8 of the 61 samples) were analyzed to screen shallow soil for PCBs.

Based on the results of shallow soil sampling, lead, arsenic, OCPs, and PCBs were either below laboratory detection limits or below regulatory screening levels. The 2016 PEA Equivalent Report concluded that no further action was warranted for arsenic, lead, OCPs and PCBs in shallow soil within the proposed development areas (Leighton Consulting, 2016).

2.0 SAMPLING ACTIVITIES

The SSI field sampling activities presented herein were conducted on October 20, October 27, November 3, and December 21, 2018, and were designed to assess lead, arsenic, mercury, OCPs, total petroleum hydrocarbons (TPH), and PCBs which were the chemicals of potential concern (COPCs) identified for shallow soil at the Site. Initially, 29 sampling locations were completed on October 27, 2018, with an additional 11 sampling locations completed on November 3, 2018 and December 21, 2018, to delineate the extent of elevated chemical concentrations identified within four (4) sampling locations which were equivalent to or exceeded regulatory screening criteria.

Where lateral delineation sampling was warranted, step-out soil sampling locations were advanced approximately five (5) feet from the original sampling location in a "V" pattern. Step-out sample locations were identified in the sample identification (ID) using the cardinal direction traveled from the original sample location (e.g., a step-out sampling location was completed five (5) feet to the northeast of location PER12 and therefore named PER12NE [Figures 2 and 3]). A second round of step-out sampling was completed on December 21, 2018 near boring location PER1. Step-out samples completed on December 21, 2018 were collected at distances ranging from approximately 17 to 35 feet away from the initial boring location in order to assess the lateral extent of OCP-impacted soil in this area (includes soil borings PER1-S, PER1-SE2, and PER1-SW2). Field observations of the soil samples did not provide an indication of hydrocarbon staining and/or odors. Appendix B contains soil boring logs and boring locations are shown on Figure 2. Appendix C contains a photographic log showing representative soil boring locations from the sampling events.

The sampling consisted of the collection of select at-depth soil samples to screen shallow soil for lead, arsenic, mercury, OCPs, TPH, and PCB concentrations. Sampling activities consisted of the following components discussed below.

2.1 Objectives

The primary objectives of this SSI were:

- To assess shallow soil for potential environmental concerns identified in the Phase I ESA for the Site; and
- To evaluate the overall Site health risk based on soil analytical screening results.

2.2 Utility Clearance

Prior to collecting the soil samples, Underground Service Alert (USA) was notified more than 48-hours prior to initiation of field sampling activities for marking subsurface utilities in and around the Site. The Site boundary was clearly marked with white water-based chalk spray paint on October 12, 2018, prior to USA notification.

In addition to USA notification, Spectrum Geophysics completed a geophysical survey on October 20 and 27, 2018, to identify potential underground utilities or obstructions in conflict with the proposed soil boring locations. Based on the geophysical survey, select proposed boring locations were adjusted in the field where necessary to minimize risk to damaging underground utilities.

2.3 Health & Safety Plan

A Site-specific health and safety plan (HASP) was prepared for the field activities. The HASP addressed issues regarding chemical exposure, personal protective equipment (PPE), physical and biological hazards that might be expected at the Site, an emergency response plan, and route to the nearest hospital. Site personnel engaged in field activities were required to read and sign the HASP. Subcontractor(s) were required to prepare and follow their own HASP during field activities, considering the Site-specific conditions.

2.4 Field Procedures

Collection of environmental samples of high integrity is important to the quality of chemical data to be generated. To this end, strict field procedures have been developed. General descriptions of field methods that were employed at various locations during various phases of the field investigation are described below.

2.4.1 Sample Collection and Analysis

Soil borings were advanced by Strongarm Environmental Services, Inc. (Strongarm), a State of California licensed driller, using hand-auger tools. Each boring was advanced to a maximum total depth of three (3) feet bgs. Soil samples were generally collected from the borings at 0.5, 1.5 and 3 feet bgs, where feasible. Lithologic information and soil descriptions from the soil borings were recorded by Leighton's on-site staff and reviewed by

a California Professional Geologist. Boring Logs are provided in Appendix B.

Specific sampling approaches are outlined below:

- Discrete soil samples were obtained from 0.5 feet, 1.5 feet and 3 feet bgs depths from each boring. Soil samples were collected in laboratory-supplied, 8-ounce glass jars.
- The upper 0.5 feet samples were analyzed for lead, arsenic, mercury, OCPs, and TPH as shown in Tables 1 and 2. Approximately 20% of the samples collected from the 0.5 feet bgs interval (8 samples) were analyzed for PCBs. Select 1.5 and 3.0 feet bgs samples were analyzed for arsenic, TPH, and/or OCPs and a majority of the 1.5 and 3.0 feet bgs samples were placed on hold. The 1.5 and 3.0 feet bgs samples were intended to allow analysis in a tiered fashion for vertical delineation of soil contamination, such that the deeper 1.5 and 3.0 feet bgs samples would be analyzed if shallow sample results revealed significant concentrations of metals, TPH, OCPs, or PCBs. A detailed summary of the sample analytical results is included in Tables 1, 2, and 3.
- Field duplicate samples were collected during the SSI sampling activities at an approximate ratio of 1 duplicate sample for every 10 original samples. The duplicate sample was collected immediately after the original sample. Due to the heterogeneity of the soil matrix, the results for duplicate samples may vary from the results of the original sample. The duplicate samples were analyzed for the same parameters as the original samples collected from the same boring and similar interval.
- Equipment rinsate blanks, EB-1 and EB-2, were collected from the reusable sampling equipment (hand auger) during sampling events on October 27, 2018 and November 3, 2018. The equipment blanks were collected by pouring laboratory-supplied deionized water over the cleaned and rinsed hand auger bucket and collecting the poured water in laboratory supplied sample container(s). The equipment blank samples were analyzed for the same parameters as the soil matrix sample(s) collected during the investigation.

Samples were analyzed for the following compounds:

- Lead by EPA Method 6010B;
- Arsenic by EPA Method 6020;
- Mercury by EPA Method 7471A;
- OCPs by EPA Method 8081A;
- PCBs by EPA Method 8082; and
- TPH carbon chain by EPA Method 8015.

2.4.2 Sample Handling and Storage

In the field, each sample container was marked with a unique sample identification along with the date and time of sample collection. Each of the sample containers were wiped with clean paper towels, sealed in a plastic bag, and securely packed in a cooler on ice, in preparation for delivery to the laboratory.

2.4.3 Sample Custody

An entry was made on a chain-of-custody form supplied by the laboratory for each sample that was submitted to the laboratory for analysis. The information recorded included the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives, and the sampler's name. Sampling team members maintained custody of the samples until they were relinquished to laboratory personnel or professional courier service. The chain-of-custody form accompanied the samples from the time of collection until received by the laboratory. Each party in possession of the samples signed the chain-of-custody form signifying receipt.

Collected soil samples were transported using standard chain-of-custody protocol to Advanced Technology Laboratories of Signal Hill, California, an analytical testing laboratory accredited by the California Department of Public Health (CDPH). Upon receipt, the laboratory inspected the condition of the sample containers and reported the information on the chain-of-custody or similar form.

A copy of the original completed chain-of-custody form was provided by the laboratory along with the report of results. Appendix D contains copies of the laboratory analytical reports.

2.4.4 Equipment Decontamination

Sampling equipment that came into contact with potentially contaminated soil was decontaminated consistently to assure the quality of samples collected. Decontamination occurred prior to and after each use of a reusable piece of equipment. The sampling devices used (e.g., hand auger) were decontaminated using the following procedures:

- Non-phosphate detergent and tap water scrub, using a brush if necessary;
- Tap water rinse; and
- Final deionized/distilled water rinse.

2.5 Laboratory Quality Control

The laboratory data package provided includes quality control sample results for blanks, matrix spike/matrix spike duplicates, surrogate recoveries, and laboratory control samples/laboratory control sample duplicates, as specified by the method. The laboratory also provided narrative stating whether or not quality control guidelines were met and listed discrepancies and laboratory data qualifiers. The laboratory reports containing the quality control results are included in Appendix D.

2.6 Abandonment of Soil Borings

Upon completion of sampling, all soil borings were backfilled with native soil (soil cuttings) and tamped per the request of District personnel.

2.7 Investigation Derived Waste Management

In the process of collecting environmental samples during the SSI activities, different types of potentially contaminated Investigation Derived Waste (IDW) were generated that included used PPE, and decontamination fluids.

Listed below are the procedures that were followed for handling the IDW:

- Used PPE were double bagged and placed in a municipal refuse dumpster. These wastes are not considered hazardous and could be sent to a municipal landfill.
- Decontamination wastewater utilized during the investigation was placed in a U.S. Department of Transportation (DOT)-approved 55-gallon steel drum. The drum was labeled and sealed, pending receipt of analytical results, waste profiling and off-site disposal.

One water sample was collected directly from the 55-gallon drum containing decontamination wastewater after the completion of the soil borings on November 3, 2018 (Sample ID "DRUM COMPOSITE", Appendix D). The IDW sample was analyzed for the following compounds:

- California Code of Regulations (CCR) Title 22 Code of Administrative Manual (CAM) 17 metals (CAM 17 metals) by EPA Method 6010B/7471A;
- Volatile Organic Compounds (VOCs) and Gasoline Range Organics (GRO) by EPA Method 8260B;
- OCPs by EPA Method 8081A; and
- Diesel Range Organics (DRO) and Oil Range Organics (ORO) by EPA Method 8015B.

Additionally, two discrete soil samples from the SSI field activities (PER15-0.5 and PER24-0.5) were analyzed for lead using the Waste Extraction Test for Soluble Threshold Limit Concentration (STLC) by EPA Method 6010B, because the Total Threshold Limit Concentration (TTLC) lead result in this sample was greater than 50 mg/kg. The result for PER24.05 was above the STLC regulatory limit of 5 milligrams per liter (mg/L), and therefore the material is considered hazardous under California waste disposal regulations, per the California Code of Regulations, Title 22, Chapter 11, Article 3.

The IDW sample results indicate that the decontamination water is classified as nonhazardous waste. The single drum of nonhazardous waste was removed from the Site on November 28, 2018 by Belshire Environmental Services, Inc. and transported to DeMenno/Kerdoon in Compton, California for disposal. Appendix E provides waste disposal documentation.

3.0 RESULTS

Information collected from the hand-auger soil borings (Appendix B) indicated that the upper approximately 2 to 3 inches from each boring was characterized as top soil which often exhibited varying amounts of organic material (grass, rootlets, wood chips, leaves, etc.). Between 4 inches and 3.0 feet bgs, Leighton typically observed poorly graded sand and some silty sand at depth. In general, the soil was observed to be grayish brown in color and moist with no chemical odor or visible hydrocarbon staining. Groundwater was not encountered in any of the boreholes during the sampling activities.

During the SSI, soil samples were collected from three depth intervals (0.5, 1.5 and 3.0 feet bgs) from the initial 29 distinct soil borings completed on October 27, 2018. From these samples, all of the 0.5 feet bgs samples were analyzed for lead, arsenic, mercury, and OCPs. Approximately 20% of the 0.5 feet samples (8 of the 40 soil samples) were analyzed to screen shallow soil for PCBs. With the exception of 14 sample locations, deeper soil samples, collected at 1.5 and 3.0 feet bgs, were not analyzed based on the laboratory results from the shallower samples, which were below screening levels and did not require vertical delineation. Additional step-out and step-down sample analysis was completed to laterally and vertically assess elevated concentrations of arsenic, OCPs, and TPH that were greater than or equal to regulatory screening criteria. Results of the delineation efforts are detailed in the sections below.

Duplicate samples show varying results to the original samples likely resulting from the observed heterogeneity of the soil matrix. When comparing analytical results of primary and associated duplicate samples, the maximum concentration was utilized in the human health screening evaluation and presented on Figure 3. The equipment blank sample results indicated that arsenic, lead, mercury, TPH, OCPs, and PCBs were not detected above laboratory detection limits (see laboratory analytical results for Samples EB-1 and EB-2 in Appendix D).

Field procedures (sampling and decontamination) were conducted in compliance with the above procedures. Laboratory procedures were in compliance with the method requirements, including acceptable reporting limits, laboratory selection, and laboratory reporting of quality control information. Acceptable sensitivity was achieved by selecting analytical methods with reporting limits suitable for comparison with action levels. Overall, the dataset is considered to be of acceptable quality. As such, the data set is considered acceptable for use in assessing human health risk at the Site.

Soil analytical results are presented in Tables 1 through 3 and Figure 3 and briefly discussed below.

3.1 Arsenic Results

Arsenic was detected in 42 soil samples with concentrations ranging from an estimated 0.98 milligrams per kilogram (mg/kg) (PER14SE at 1.5 feet bgs) to 13 mg/kg (PER14 at 1.5 feet bgs [Table 1]). The arsenic concentrations detected during this investigation were below the DTSC-adopted background arsenic concentration of 12 mg/kg (DTSC, 2008) in all soil samples with the exception of three (3) samples. Duplicate sample DUP-2 (collected at PER12 at 0.5 feet bgs) and PER14-0.5 reported arsenic concentrations of 12 mg/kg and PER14-1.5 reported a concentration of 13 mg/kg. Step-out and step-down soil samples were collected to laterally and vertically assess the elevated concentrations of arsenic detected at sample locations PER12 and PER14 (Figure 5).

3.2 Lead Results

Lead was detected in 32 soil samples with concentrations ranging from an estimated 0.63 mg/kg (duplicate sample DUP-1 for PER1 at 0.5 feet bgs) to 67 mg/kg (PER15 at 0.5 feet bgs [Table 1]). The lead concentrations detected during this investigation are below the EPA Region 9 Regional Screening Level (RSL) of 400 mg/kg for residential land use (EPA, 2018) and below the DTSC-modified screening level (DTSC SL) of 80 mg/kg (screening level for use in human health risk assessments [DTSC, 2018]).

Lead concentrations exceeding 50 mg/kg were analyzed for the California Waste Extraction Test for STLC as part of a waste-disposal criteria determination effort. Soil samples PER15-0.5 and PER24-0.5 reported soluble lead concentrations of 3.7 and 8.3 mg/L, respectively (Table 1). The soluble lead concentration for PER24-0.5 exceeds the STLC of 5 mg/L, and therefore the material is considered California-restricted non-RCRA hazardous waste under California waste disposal regulations, per the California Code of Regulations, Title 22, Chapter 11, Article 3.

3.3 Mercury Results

Mercury was detected in 32 soil samples with concentrations ranging from an estimated 0.02 mg/kg (PER17 at 0.5 feet bgs) to an estimated 0.10 mg/kg

(PER12 at 0.5 feet bgs). The mercury concentrations detected during this investigation are below the RSL of 11 mg/kg for residential land use and below the DTSC SL of 1.0 mg/kg (Table 1).

3.4 TPH Results

TPH analytical results were divided into three carbon-chain ranges including GRO (C5-C12), DRO (C10-C28), and ORO (C18-C36). GRO was not detected above the laboratory method detection limit (MDL) in the 32 soil samples analyzed. DRO was detected in 37 soil samples with concentrations ranging from 1.2 mg/kg (PER28 at 0.5 feet bgs) to 500 mg/kg (duplicate DUP-3 for sample location PER22 at 0.5 feet bgs). ORO was detected in 37 soil samples with concentrations ranging from 1.6 mg/kg (duplicate DUP-1 for sample location PER1 at 0.5 feet bgs) to 830 mg/kg (duplicate DUP-3 for sample location PER22 at 0.5 feet bgs).

TPH concentrations detected during this investigation were below the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (ESLs) (SFRWQCB, 2016) with the exception of the DRO concentration of 500 mg/kg in DUP-3 (sample location PER22 at 0.5 feet bgs [Table 1]).

3.5 OCP Results

Concentrations of 13 individual OCP compounds were detected in soil collected during this investigation (Table 2). Detected compounds included 4,4-DDD, 4,4-DDE, 4,4-DDT, aldrin, alpha-BHC, alpha-chlordane, beta-BHC, chlordane, delta-BHC, dieldrin, gamma-BHC, gamma-chlordane, and heptachlor epoxide. Of these 13 compounds identified in soil at the Site, only two compounds, chlordane and dieldrin, were detected at concentrations exceeding a regulatory screening level.

Chlordane was reported in 17 soil samples and ranged between an estimated 1.4 micrograms per kilogram ($\mu\text{g}/\text{kg}$) (PER20 at 0.5 feet bgs) and 2,600 $\mu\text{g}/\text{kg}$ (PER1-SW2 at 0.5 feet bgs). Two chlordane concentrations reported in step-out soil boring PER1-SW2 were either equal to or exceed the DTSC SL of 440 $\mu\text{g}/\text{kg}$.

Dieldrin was reported in nine (9) soil samples and ranged between 2.7 $\mu\text{g}/\text{kg}$ (PER1-SW at 1.5 feet bgs) and 93 $\mu\text{g}/\text{kg}$ (PER1 at 0.5 feet bgs). Dieldrin concentrations for PER1-0.5 (93 $\mu\text{g}/\text{kg}$), PER1-SE-0.5 (36 $\mu\text{g}/\text{kg}$), PER1-SW-0.5

(39 µg/kg), and PER1-SW2-0.5 (70 µg/kg) exceed the RSL of 34 µg/kg for residential land use.

3.6 PCB Results

Laboratory results indicate that PCB concentrations were below the laboratory method detection limit in the subset of soil samples chosen for PCB analysis (eight samples and three duplicates collected from a depth of 0.5 feet bgs [Table 3]).

4.0 HUMAN HEALTH SCREENING EVALUATION

Areas investigated as part of this SSI were unpaved and adjacent to the perimeter sidewalk that borders the School property. As these areas are not paved or otherwise covered, a direct exposure pathway exists for members of the public and students who come in direct contact with surface soil or fugitive dust generated by soil disturbance. It is Leighton's understanding that one of the goals of this SSI was to assess shallow soil for COPCs identified in the Phase I ESA (WorleyParsons, 2016). Data obtained during this SSI will help to evaluate reuse and disposal options for soil that may be disturbed during planned perimeter upgrades.

Elevated levels of arsenic, DRO, chlordane, and dieldrin were identified at the Site based on the soil sampling activities conducted on October 27, 2018, November 3, 2018, and December 21, 2018, during which select samples were analyzed for arsenic, lead, mercury, TPH, OCPs, and PCBs (Tables 1 through 3), as described in Section 3. Results for lead, mercury, and PCBs were below their respective screening levels (Human Health Risk Assessment Note #3, and RSLs). Arsenic, DRO, chlordane and dieldrin are considered chemicals of concern (COCs) for the Site and are discussed in detail below.

Arsenic in Soil: A 12 mg/kg concentration of arsenic in soil represents an upper-bound value for background ambient levels of arsenic found in southern California and is actually a 95% upper confidence limit (UCL). The 12 mg/kg concentration was used as the screening level for arsenic at the Site (DTSC, 2008).

As summarized in Table 1, arsenic was detected in 42 soil samples with concentrations ranging from an estimated 0.98 mg/kg (PER14SE at 1.5 feet bgs) to 13 mg/kg (PER14 at 1.5 feet bgs). Due to the presence of sample results at or above 12 mg/kg in three (3) of the samples, a 95% upper confidence limit (UCL) analysis was completed. The analysis used the 42 detections above the MDL to determine if arsenic in soil exceeded the screening level, and would potentially present a human health risk to current or future occupants of the Site. The 95% UCL Analysis Report is included as Appendix F. The suggested UCL result for arsenic based on the ProUCL calculation was 6.304 mg/kg (95% adjusted gamma UCL). The median arsenic result is 4.5 mg/kg.

Adequate lateral and vertical delineation of elevated arsenic was accomplished by analysis of step-out and step-down samples adjacent to impacted sample locations PER12 and PER14 (Figures 3 and 5). Shallow soil where elevated arsenic concentrations where detected should be targeted for removal such that arsenic

remaining at the Site is below the DTSC-recommended ambient background concentration of 12 mg/kg (DTSC, 2008).

DRO in Soil: Concentrations of TPH were detected in every soil sample analyzed by EPA Method 8015B during this SSI. With the exception of the DRO concentration of 500 mg/kg detected in duplicate sample DUP-3 for sample location PER22 at 0.5 feet bgs, all other concentrations of GRO, DRO, and ORO were below laboratory detection limits and/or regulatory screening levels (Table 1).

Adequate lateral and vertical delineation of elevated DRO was accomplished by analysis of step-out and step-down samples adjacent to impacted sample location PER22 (Figure 3). It is recommended that shallow soil where elevated DRO results were reported be targeted for removal, so that DRO remaining at the Site is below the SFRWQCB ESL (230 mg/kg).

Dieldrin in Soil: Dieldrin was reported in nine (9) soil samples and ranged between 2.7 µg/kg (PER1-SW at 1.5 feet bgs) and 93 µg/kg (PER1 at 0.5 feet bgs). Dieldrin concentrations for PER1-0.5 (93 µg/kg), PER1-SE-0.5 (36 µg/kg), PER1-SW-0.5 (39 µg/kg), and PER1-SW2-0.5 (70 µg/kg) exceed the RSL of 34 µg/kg for residential land use (Table 2).

Based on the limited number of detected concentrations of dieldrin, the impacted area appears to be limited to the upper one foot of soil within the landscaped area at the northeast corner of the School property (Figure 3). Shallow soil where elevated dieldrin results were reported should be targeted for removal, so that dieldrin remaining at the Site is below the EPA RSL of 34 µg/kg (EPA, 2018).

Chlordane in Soil: Chlordane was reported in 17 soil samples and ranged between an estimated 1.4 µg/kg (PER20 at 0.5 feet bgs) and 2,600 µg/kg (PER1-SW2 at 0.5 feet bgs). Two chlordane concentrations reported in step-out soil boring PER1-SW2 were either equal to or exceed the DTSC SL of 440 µg/kg (Table 2).

Similar to dieldrin, elevated chlordane appears to be limited to the landscaped area in the vicinity of soil boring PER1. Only one boring contained soil concentrations of chlordane at or above regulatory screening levels (PER1-SW2). Elevated chlordane concentrations are collocated with shallow soil impacted by dieldrin. Shallow soil where chlordane results exceed a screening level should be targeted for removal, so that chlordane remaining at the Site is below the DTSC SL of 440 µg/kg.

Other COPCs in Soil (lead, mercury, GRO, ORO, PCBs, and the remaining OCPs):

With the exception of limited areas with elevated arsenic, DRO, chlordane, and dieldrin, the SSI sampling results presented in this report demonstrate that soil analytical results for lead, mercury, GRO, ORO, PCBs, and the remaining OCPs were either below the laboratory detection limits or below regulatory screening levels.

As discussed in Section 3.2, the soil sample collected at 0.5 feet bgs at boring location PER24 contained a reported a total lead concentration of 64 mg/kg. Although this concentration of lead is below the DTSC-recommended screening level for lead of 80 mg/kg, the soil is classified as California-restricted non-RCRA hazardous waste based on a soluble lead concentration above the regulatory limit of 5 mg/L (STLC). Given the identified presence of readily soluble lead, soil with elevated lead should be targeted for removal in the vicinity of soil boring PER24.

Arsenic, DRO, chlordane, and dieldrin have been identified as COCs in soil. Based on District preference to remove soil with elevated arsenic, lead, TPH, and OCPs, further action appears warranted at the Site.

5.0 COMMUNITY PROFILE

5.1 Community Demographics

A brief summary of the community demographics for the zip code 91607 in Los Angeles County according to the 2010 US Census (factfinder.census.gov) is as follows:

- Total Population: 27,927
- Male: 13,635 (48.8%)
- Female: 14,292 (51.2%)
- Median Age: 38.2
- Population 18 Years and Over: 82.5%
- Total Housing Units: 12,859
- Average Household Size: 2.15
- Population by Race:
 - White: 18,523 (66.3%)
 - Hispanic or Latino: 5,463 (19.6%)
 - Asian: 1,586 (5.7%)
 - Black or African American: 1,470 (5.3%)
 - Other: 885 (3.1%)

5.2 Local Participation and Involvement

At the time of this investigation, Leighton is not aware of any current or past media coverage with relation to the School property or the Site. A work notice, in the form of a flyer, was produced in English and Spanish (double-sided) to provide members of the community with details regarding the SSI including who would perform the work, project schedule, when and where the results of the investigation would be posted, and who to contact regarding additional information. On October 17 and 18, 2018, this work notice flyer was handed out to all Colfax Charter Elementary School staff, mailed to all parents of students and interested community members added to the work notice mailing list at the community meeting, hand-delivered to all line-of-site neighbors of the School, and posted along the boundary fence of the School property.

No specific environmental concerns or issues have been brought to the District's attention regarding the on-site activities at this time. In terms of project visibility, the on-site work took place outside of School hours (three consecutive Saturdays and Friday during a holiday break) to minimize any interference with school activities. Line-of-site neighbors, School staff, parents and interested community members were given copies of the work notice flyer. At this time, Leighton is unaware of environmental concerns or issues with relation to neighboring sites.

6.0 OPINION OF ENVIRONMENTAL PROFESSIONAL

Based on the SSI sampling results (Tables 1 through 3), elevated levels of arsenic, DRO, chlordane, and dieldrin were reported for soil in limited areas of the Site (Figure 3) and further action appears warranted. A removal action should be completed to target the four areas (PER1, PER12, PER14, and PER22) where impacted soils were identified above regulatory screening levels. Additionally, lead in soil that exceeds the STLC (PER24 at 0.5 feet bgs) should be targeted for removal (Figure 6).

Arsenic and DRO-impacted soil above regulatory screening levels appears limited based on the step-out and step-down sampling completed during the SSI. Figures 5 and 6 include approximate areas where soil excavation is recommended to address elevated arsenic and DRO concentrations identified at the Site.

Step-down sampling for dieldrin confirmed that impacted soil is generally within the upper 6 to 12 inches bgs, however, step-out sampling conducted in five (5) locations surrounding the original boring location (PER1) indicate that dieldrin concentrations above the RSL are laterally extensive in the northeast landscaped area. While delineating soil impacted by dieldrin, elevated chlordane concentrations above the DTSC SL were identified in step-out boring PER1-SW2. Leighton recommends that limited soil excavation be conducted to remove shallow soil with dieldrin and/or chlordane concentrations above a screening level (34 µg/kg for dieldrin and 440 µg/kg for chlordane). The recommended excavation area for OCP-impacted soil is shown on Figure 4.

The elevated concentrations of arsenic, DRO, and OCPs were detected in limited areas and were not significantly higher than applicable environmental screening levels. The data set generated as part of this SSI appears adequate to address the limited areas where impacted soil was identified. With the exception of excavation bottom and sidewall confirmation sampling, additional sampling at the Site does not appear warranted at this time.

Although total concentrations of lead detected in soil samples during this investigation were below residential screening levels, one discrete sample contained soluble lead above the STLC, thus meeting the criteria for classification as a California-restricted non-RCRA hazardous waste. It is recommended that the shallow soil designated as a hazardous waste be removed from the Site in addition to the four (4) health-risk based soil removals discussed above (see Figure 6).

The impacted material identified in this SSI can likely be removed and segregated from other soils being disturbed during the implementation of the Colfax Charter Elementary Perimeter Upgrade Project. Alternatively, the District could also conduct a housekeeping excavation with confirmation sampling to provide separate documentation for the removal of impacted soils at the Site.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The Site consists of the perimeter area around the Colfax Charter Elementary School property boundary and represents proposed development areas associated with the Colfax Charter Elementary School Perimeter Upgrade Project (Figure 2). The primary objectives of this SSI were to assess shallow soil for potential environmental concerns identified in the Phase I ESA for the Site; and to evaluate the overall Site health risk based on soil analytical screening results for COPCs (lead, arsenic, mercury, OCPs TPH, and PCBs).

As presented in this SSI report, elevated levels of dieldrin, chlordane, arsenic, and DRO were reported for soil in limited areas at the Site (Figure 3) and further action appears warranted. Based on the laboratory analytical results, limited soil excavation is recommended to remove soil impacted by COCs above appropriate regulatory screening levels. Recommended areas for soil removal are presented in Figures 4, 5, and 6 and described below.

- Removal of OCP-impacted soil is recommended in the vicinity of soil samples PER1, PER1-SW, PER1-SE, and PER1-SW2. Based on step-out sampling results for dieldrin in this area, a conservative excavation footprint of 60 feet by 25 feet is proposed (see Figure 4). Total depth of the excavation should extend to a minimum of 1-foot bgs, where feasible. During the investigation, mature trees were noted within the landscaped area surrounding borings PER1 and PER2. Tree roots associated with these trees may limit the amount of soil that can be removed within the proposed excavation area. Following feasible soil removal activities, six sidewall confirmation samples (two samples along the north and south wall plus one sample along the east and west walls) should be collected at a depth of 0.5 feet bgs at the lateral limits of the completed excavation. Two confirmation samples should be collected from the completed excavation bottom (one of the bottom samples should be located in the vicinity of boring PER1-SW2 to verify that chlordane concentrations of remaining soil are below 440 µg/kg. Confirmation samples should be analyzed for OCPs by EPA Method 8081A. If confirmation samples contain concentrations of OCPs above appropriate regulatory screening levels, additional soil removal and confirmation sampling should be conducted, as appropriate.
- An excavation of arsenic-impacted soil is recommended in the vicinity of sample locations PER12 and PER14. Based on low arsenic concentrations reported in step-out samples collected near PER12 and PER14, excavation areas of approximately 8 feet by 8 feet are recommended around PER12 and PER14 (Figure

- 5). The proposed excavation around sample location PER12 should extend to a minimum depth of 1-foot bgs while the proposed excavation around PER14 should extend to a minimum depth of 3 feet bgs. Confirmation samples should be collected at approximately 0.5 feet bgs from each sidewall at PER 12 and at 1.5 feet bgs from each sidewall at PER14 and one confirmation sample should be collected from the completed excavation bottom (five samples per excavation). Confirmation samples should be analyzed for arsenic by EPA Method 6020. If confirmation samples contain concentrations of arsenic at or above 12 mg/kg (upper-bound limit for background arsenic in soil), further soil removal and confirmation sampling should be conducted, as appropriate.
- An excavation of DRO-impacted soil is recommended in the vicinity of sample location PER22. Based on low DRO concentrations reported in step-out samples collected near PER22, an excavation area of approximately 8 feet by 8 feet is recommended around PER22 (Figure 6). The proposed excavation should extend to a minimum depth of 1-foot bgs. Confirmation samples should be collected at approximately 0.5 feet bgs from each sidewall in the excavation and one confirmation sample should be collected from the completed excavation bottom (five samples total). Confirmation samples should be analyzed for DRO by EPA Method 8015B. If confirmation samples contain concentrations of DRO above 230 mg/kg (SFRWQCB ESLs), additional soil removal and confirmation sampling should be conducted, as appropriate.
 - An excavation of soil with lead above the STLC is recommended in the vicinity of sample location PER24. The impacted area does not propose an immediate health risk (total lead reported for soil is below the DTSC SL of 80 mg/kg), however, the material is classified as California-restricted non-RCRA hazardous waste and should be segregated for proper disposal. An excavation measuring approximately 5 feet by 5 feet is recommended around location PER24 (Figure 6). The proposed excavation should extend to a minimum of 1-foot bgs. Confirmation samples should be collected at approximately 0.5 feet bgs from each sidewall in the excavation and one confirmation sample should be collected from the completed excavation bottom (five samples total). Confirmation samples should be analyzed for total lead by EPA Method 6010. If confirmation samples contain concentrations of total lead above 50 mg/kg, a California Waste Extraction Test should be performed to confirm that soluble lead is below the STLC of 5 mg/L. If confirmation samples exceed the STLC for lead, additional soil removal and confirmation sampling should be conducted, as appropriate.

Leighton understands that soil disturbance activities independent of the recommended soil removals in this SSI report are anticipated as part of the Colfax Charter Elementary School Perimeter Upgrade Project. At this time, Leighton is not aware of specific Perimeter Upgrade Project excavation or soil reuse details. Should the District choose to conduct the remedial soil excavations described above concurrently with Perimeter Upgrade Project soil disturbance, soil removed from the four remedial excavation areas should be segregated and not permitted as backfill material at the Site. Soil generated from the proposed remedial excavation areas should be appropriately secured from public access, sampled in accordance with District waste characterization procedures, and profiled for offsite disposal at an LAUSD approved disposal facility.

In general, observations should be made during all trenching/excavation activities for areas of possible contamination such as, but not limited to, the presence of underground facilities, buried debris, waste drums, tanks, stained soil or odorous soils. Should such materials be encountered, further investigation and analysis may be necessary at that time. Although below residential health screening criteria, one soil sample collected during this SSI, PER24-0.5, contained a concentration of lead exceeding the STLC (as described in Section 3.2). Should soil generated from the vicinity of sample location PER24 require disposal, laboratory analytical data obtained during this SSI supports classification of the soil as California-restricted non-RCRA hazardous waste.

Given the limited extent of soil containing elevated COC concentrations, and due to the fact that dieldrin is not included on the list of “toxic air contaminants” in the South Coast Air Quality Management District (AQMD) Rule 1466 (AQMD, 2017), it is not anticipated that the total volume of soil disturbance involving material impacted by COCs considered as “toxic air contaminants” will exceed the minimum 50 cubic yards as described in the Rule. A summary of the approximate soil volumes recommended for removal is provided in the following table:

Location	Approximate Volume of Soil Applicable to AQMD Rule 1466 (cubic yards)	Approximate Volume of Soil Not Applicable to AQMD Rule 1466 (cubic yards)
PER1	3.7	51.8
PER12	2.4	
PER14	7.1	
PER22		2.4
PER24	0.9	
Totals	14.1	54.2

In an effort to control fugitive dust during all earth-moving activities, it is recommended that the District and its contractors follow the best available control measures described in Table 1 of AQMD Rule 403 for the control of fugitive dust during applicable earth-moving activities such as, but not limited to, trenching, stockpiling, and truck loading (AQMD, 2005).

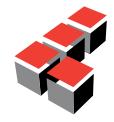
8.0 LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. Opinions, conclusions, and recommendations contained in this report apply to conditions existing when the services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. Where subsurface exploratory work, monitoring, and/or testing was performed, our professional opinions and conclusions are based in part on interpretation of data from discrete sampling or measurement locations that may not represent actual conditions at un-sampled or un-measured locations. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of the services. We assume no responsibility for conditions we were not authorized to evaluate, or conditions not generally recognized as predictable when the services were performed. We do not warranty the accuracy of information supplied by others, or the use of segregated portions of this report.

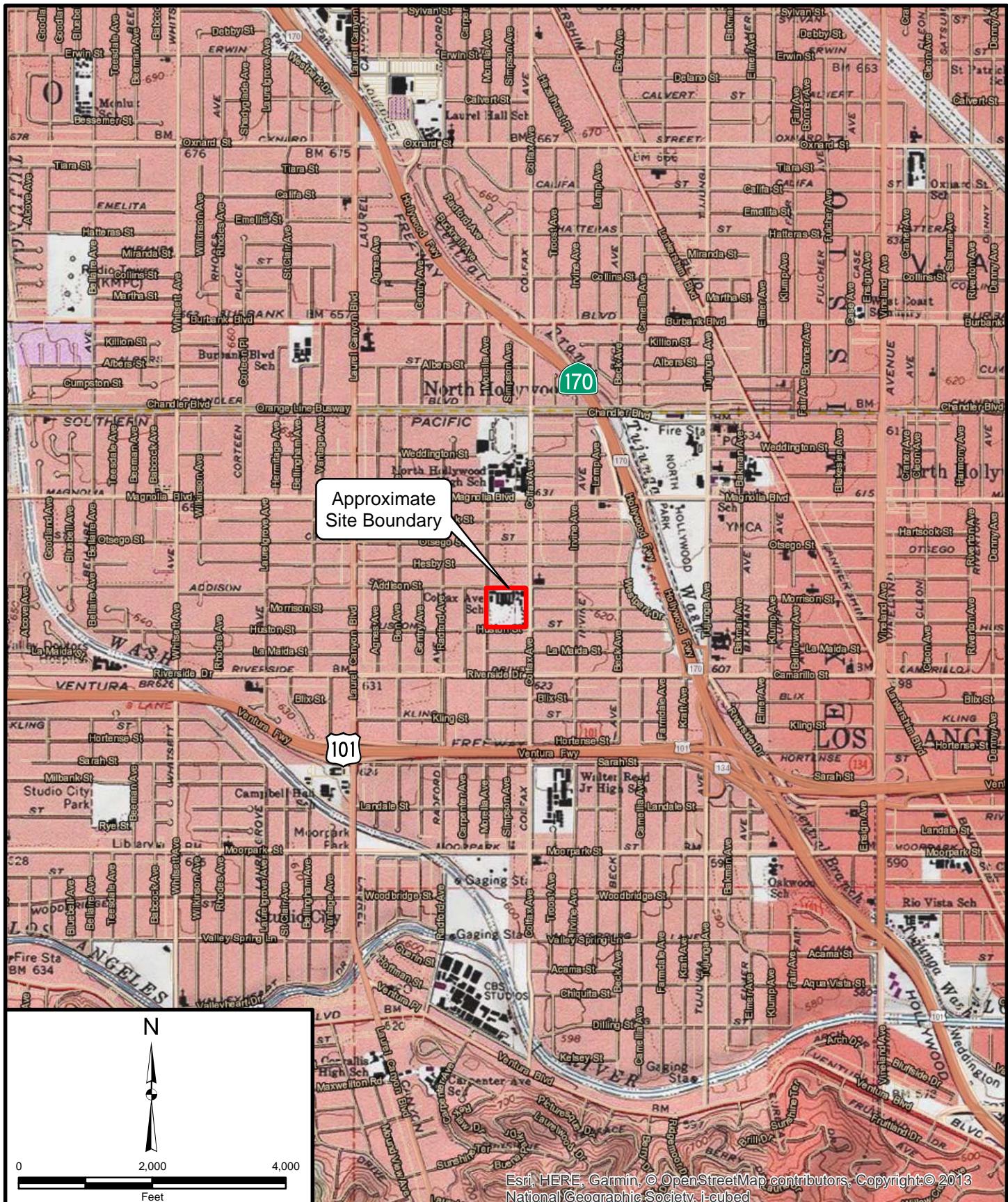
This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Leighton should be contacted if the reader requires any additional information, or has questions regarding content, interpretations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

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

FIGURES



Leighton



Project: 11640.008 Eng/Geol: RES

Scale: 1 " = 2,000 ' Date: November 2018

Base Map: ESRI ArcGIS Online 2018

Thematic Information: Leighton

Author: Leighton Geomatics (btran)

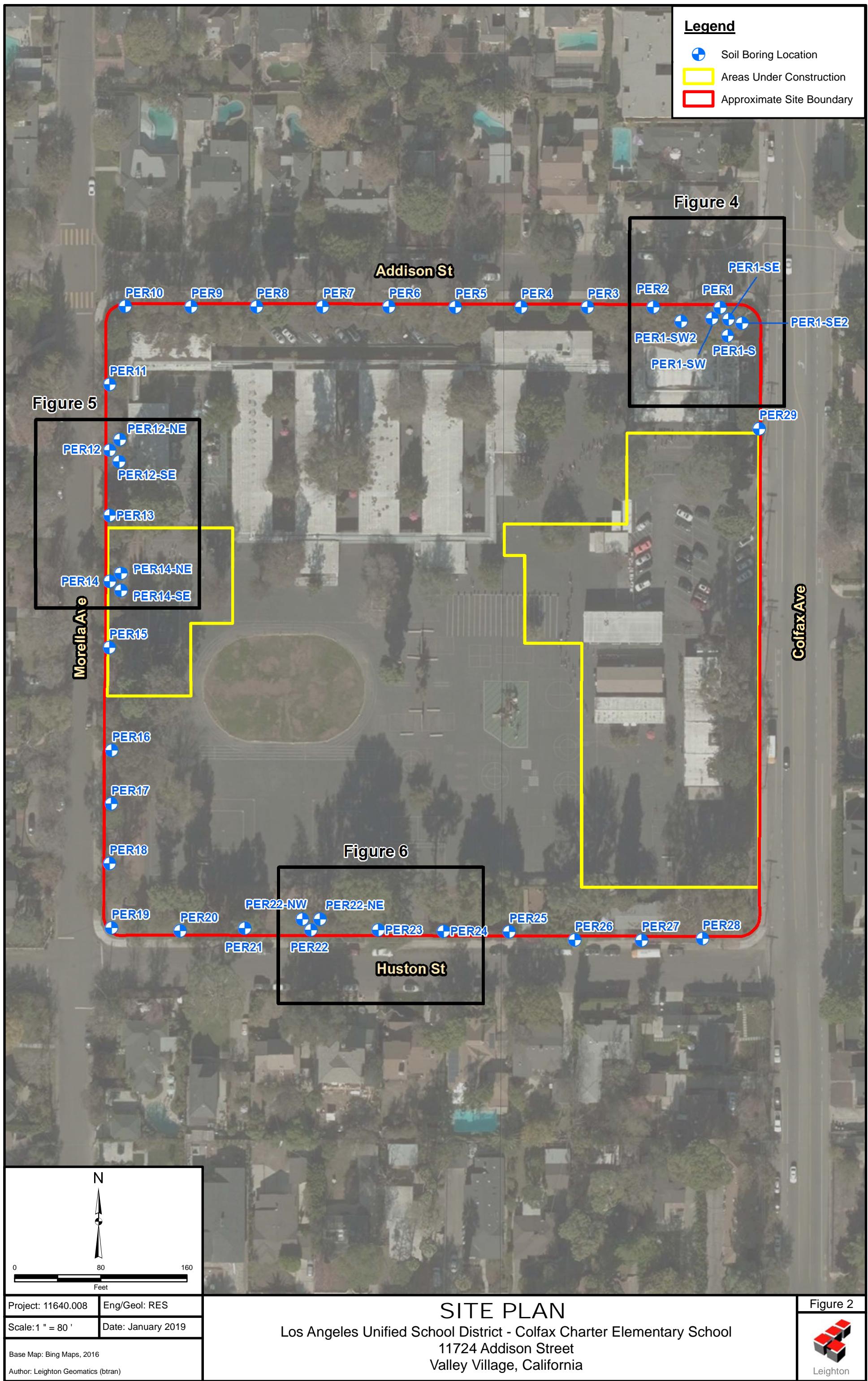
SITE LOCATION MAP

Los Angeles Unified School District -
Colfax Charter Elementary School
11724 Addison Street
Valley Village, California

Figure 1

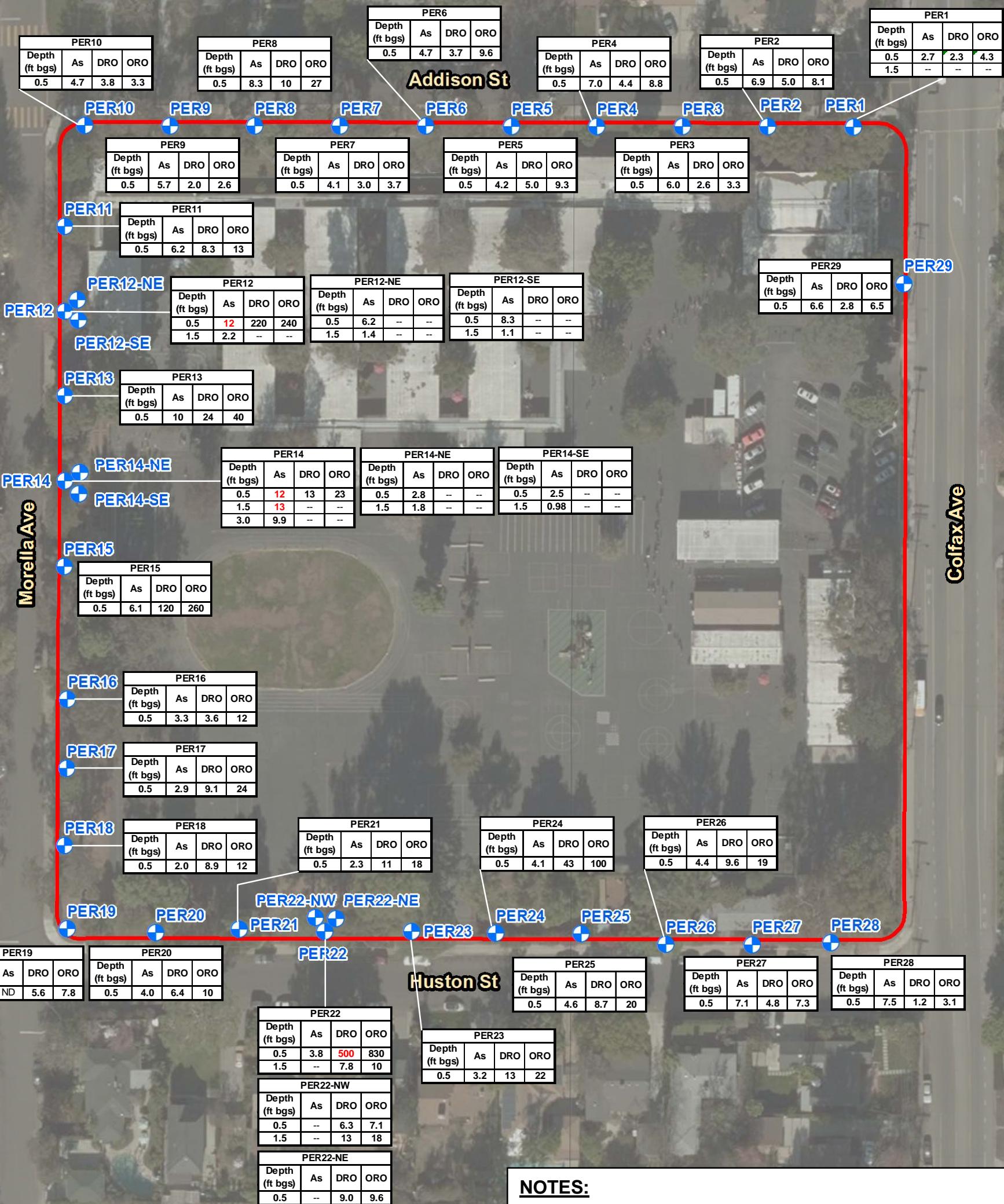


Leighton



Legend

- Soil Boring Location
- Approximate Site Boundary

**NOTES:**

Values presented for each sample location represent maximum concentrations between primary and duplicate samples, where applicable. Concentrations shown in red exceed a regulatory screening level.

As = arsenic concentration (mg/kg)

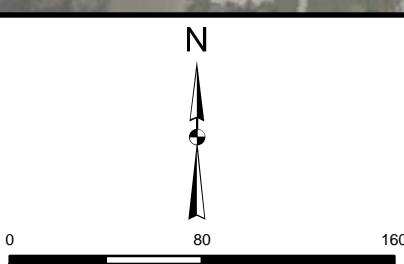
DRO = diesel range organics (mg/kg)

ORO = oil range organics (mg/kg)

ft bgs = feet below ground surface

ug/kg = micrograms per kilogram

ND = not detected above laboratory method detection limit



Project: 11640.008 Eng/Geol: RES
Scale: 1" = 80' Date: January 2019

Base Map: Bing Maps, 2016
Author: Leighton Geomatics (btran)

ANALYTICAL RESULTS FOR ARSENIC, DRO, AND ORO IN SOIL

Los Angeles Unified School District - Colfax Charter Elementary School
11724 Addison Street, Valley Village, California

Figure 3



Legend

-  Soil Boring Location
-  Recommended Excavation Area
-  Approximate Site Boundary

Notes:

Values presented for each sample location represent maximum concentrations between primary and duplicate samples, where applicable.
Concentrations shown in red exceed a regulatory screening level.

OCP = organochlorine pesticide
Cldn = chlordane concentration (ug/kg)
Dldn = dieldrin concentration (ug/kg)
ft bgs = feet below ground surface
ug/kg = micrograms per kilogram
ND = not detected above laboratory method detection limit

Addison Street

Approximate Soil Volume for Removal
 $60' \times 25' \times 1' = 55.5 \text{ Cubic Yards}$

PER2

PER2		
Depth (ft bgs)	Cldn	Dldn
0.5	63	33

Approximate Soil Volume Applicable to AQMD Rule 1466
 $10' \times 10' \times 1' = 3.7 \text{ Cubic Yards}$

PER1-SW2		
Depth (ft bgs)	Cldn	Dldn
0.5	2600	70
1.0	440	12

PER1-SW		
Depth (ft bgs)	Cldn	Dldn
0.5	94	39
1.5	7.1	2.7

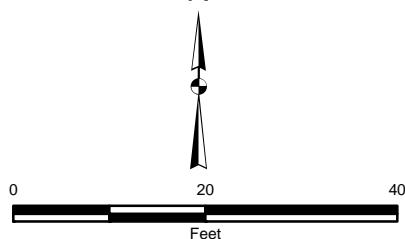
PER1		
Depth (ft bgs)	Cldn	Dldn
0.5	57	93
1.5	ND	ND

PER1-SE		
Depth (ft bgs)	Cldn	Dldn
0.5	210	36
1.5	ND	ND

PER1-SE2		
Depth (ft bgs)	Cldn	Dldn
0.5	27	6.4

PER1-S

PER1-S		
Depth (ft bgs)	Cldn	Dldn
0.5	180	30

Colfax Avenue**N**

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Distribution Airbus DS

Project: 11640.008 Eng/Geol: RES

Scale: 1 " = 20 ' Date: January 2019

Base Map: ESRI ArcGIS Online 2019
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

RECOMMENDED EXCAVATION AREA FOR OCP-IMPACTED SOIL
Los Angeles Unified School District -
Colfax Charter Elementary School
11724 Addison Street, Valley Village, California

Figure 4



Leighton

Legend

-  Soil Boring Location
-  Recommended Excavation Area
-  Approximate Site Boundary

PER12

PER12	
Depth (ft bgs)	As
0.5	12
1.5	2.2

PER12-NE	
Depth (ft bgs)	As
0.5	6.2
1.5	1.4

PER12-NE

PER12-SE

Approximate Soil Volume for Removal:
8'x8'x1'=2.4 Cubic Yards

Morella Avenue

PER13

PER12	
Depth (ft bgs)	As
0.5	10

PER14-NE	
Depth (ft bgs)	As
0.5	2.8
1.5	1.8

PER14

PER14	
Depth (ft bgs)	As
0.5	12
1.5	13
3.0	9.9

PER14-NE

PER14-SE

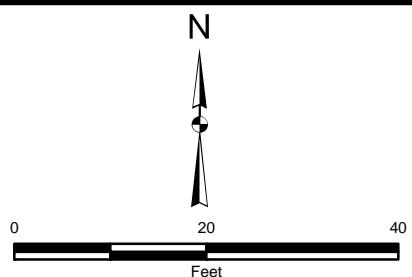
Approximate Soil Volume for Removal:
8'x8'x3'=7.1 Cubic Yards

Notes:

Values presented for each sample location represent maximum concentrations between primary and duplicate samples, where applicable. Concentrations shown in red exceed a regulatory screening level.

As = arsenic concentration (mg/kg)
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram

N



PER14-SE	
Depth (ft bgs)	As
0.5	2.5
1.5	0.98

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Distribution Airbus DS

Project: 11640.008 Eng/Geol: RES

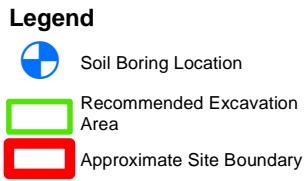
Scale: 1 " = 20 ' Date: December 2018

Base Map: ESRI ArcGIS Online 2018
Thematic Information: Leighton
Author: Leighton Geomatics (btran)

RECOMMENDED EXCAVATION AREAS FOR ARSENIC-IMPACTED SOIL
Los Angeles Unified School District -
Colfax Charter Elementary School
11724 Addison Street, Valley Village, California

Figure 5





Notes:
Values presented for each sample location represent maximum concentrations between primary and duplicate samples, where applicable. Concentrations shown in red exceed a regulatory screening level.

DRO = diesel range organics (mg/kg)
ORO = oil range organics (mg/kg)
ft bgs = feet below ground surface
mg/kg = milligrams per kilogram

**Approximate of DRO-Impacted Soil
Volume For Removal:
 $8' \times 8' \times 1' = 2.4 \text{ Cubic Yards}$**

PER22-NW		
Depth (ft bgs)	DRO	ORO
0.5	6.3	7.1
1.5	13	18

PER22-NE		
Depth (ft bgs)	DRO	ORO
0.5	9.0	9.6
1.5	4.8	5.2

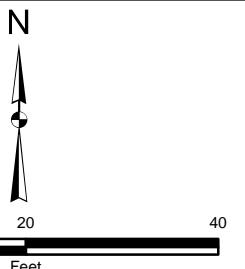
PER22-NW PER22-NE
PER22

**Approximate Lead-Impacted Soil
Volume For Removal:
 $5' \times 5' \times 1' = 0.9 \text{ Cubic Yards}$**

PER23

PER24

PER22		
Depth (ft bgs)	DRO	ORO
0.5	500	830
1.5	7.8	10



Huston St

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Project: 11640.008 Eng/Geol: RES

Scale: 1" = 20' Date: January 2019

Base Map: ESRI ArcGIS Online 2019

Thematic Information: Leighton

Author: Leighton Geomatics (btan)

**RECOMMENDED EXCAVATION AREA
FOR DRO-IMPACTED AND LEAD-IMPACTED SOIL**
Los Angeles Unified School District -
Colfax Charter Elementary School
11724 Addison Street, Valley Village, California

Figure 6



Leighton

TABLES



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Table 1
Summary of Metal and Total Petroleum Hydrocarbon Results in Soil
LAUSD - Colfax Charter Elementary School, Los Angeles, California

Sample ID	Depth (ft bgs)	Sample Date	EPA 6020 (mg/kg)	EPA 6010 (mg/kg)	CA-WET (mg/L)	EPA 7471A (mg/kg)	EPA Method 8015B (mg/kg)				
			Arsenic	Lead	STLC (Lead)	Mercury	GRO	DRO	ORO		
Regulatory Guidance Screening Levels (mg/kg)											
USEPA RSL ²			0.68	400	--	11	--	--	--		
DTSC SLs ³			0.11	80 ⁵	--	1.0	--	--	--		
DTSC Background ⁴			12	--	--	--	--	--	--		
SFRWQCB ESLs ⁶			0.067	80	--	13	100	230	5,100		
STLC (mg/L)			--	--	5	--	--	--	--		
PER1-0.5	0.5	10/27/18	2.0 D1	4.0	--	0.05 J	ND<0.20	1.5	4.3		
DUP-1	0.5	10/27/18	2.7 D1	0.63 J	--	0.03 J	ND<0.20	2.3	1.6		
PER2-0.5	0.5	10/27/18	6.9 D1	2.8	--	0.06 J	ND<0.20	5.0	8.1		
PER3-0.5	0.5	10/27/18	6.0 D1	5.4	--	0.05 J	ND<0.20	2.6	3.3		
PER4-0.5	0.5	10/27/18	7.0 D1	15	--	0.05 J	ND<0.20	4.4	8.8		
PER5-0.5	0.5	10/27/18	4.2 D1	6.6	--	0.07 J	ND<0.20	5.0	9.3		
PER6-0.5	0.5	10/27/18	4.7 D1	1.6	--	0.08 J	ND<0.20	3.7	9.6		
PER7-0.5	0.5	10/27/18	4.1 D1	1.6	--	0.07 J	ND<0.20	3.0	3.7		
PER8-0.5	0.5	10/27/18	8.3 D1	9.4	--	0.07 J	ND<0.20	10	27		
PER9-0.5	0.5	10/27/18	5.7 D1	0.98 J	--	0.08 J	ND<0.20	2.0	2.6		
PER10-0.5	0.5	10/27/18	4.7 D1	0.71 J	--	0.06 J	ND<0.20	3.8	3.3		
PER11-0.5	0.5	10/27/18	6.2 D1	1.4	--	0.03 J	ND<0.20	8.3	13		
PER12-0.5	0.5	10/27/18	11 D1	18	--	0.10 J	ND<0.20	110	140		
DUP-2	0.5	10/27/18	12 D1	20	--	0.06 J	ND<0.20	220	240		
PER12-1.5	1.5	10/27/18	2.2 D1	--	--	--	--	--	--		
PER12-NE-0.5	0.5	11/03/18	6.2 D1	--	--	--	--	--	--		
PER12-NE-1.5	1.5	11/03/18	1.4 D1	--	--	--	--	--	--		
PER12-SE-0.5	0.5	11/03/18	8.3 D1	--	--	--	--	--	--		
PER12-SE-1.5	1.5	11/03/18	1.1 D1	--	--	--	--	--	--		
PER13-0.5	0.5	10/27/18	10 D1	13	--	0.04 J	ND<0.20	24	40		
PER14-0.5	0.5	10/27/18	12 D1	14	--	0.04 J	ND<0.20	13	23		
PER14-1.5	1.5	10/27/18	13 D1	--	--	--	--	--	--		
PER14-3.0	3	10/27/18	9.9 D1	--	--	--	--	--	--		
PER14-NE-0.5	0.5	11/03/18	2.8 D1	--	--	--	--	--	--		
PER14-NE-1.5	1.5	11/03/18	1.8 D1	--	--	--	--	--	--		
PER14-SE-0.5	0.5	11/03/18	2.5 D1	--	--	--	--	--	--		
PER14-SE-1.5	1.5	11/03/18	0.98 J D1	--	--	--	--	--	--		
PER15-0.5	0.5	10/27/18	6.1 D1	67	3.7	0.07 J	ND<0.20	120	260		
PER16-0.5	0.5	10/27/18	3.3 D1	7.3	--	0.05 J	ND<0.20	3.6	12		
PER17-0.5	0.5	10/27/18	2.9 D1	2.0	--	0.02 J	ND<0.20	9.1	24		
PER18-0.5	0.5	10/27/18	2.0 D1	3.6	--	0.03 J	ND<0.20	8.9	12		
PER19-0.5	0.5	10/27/18	ND<0.04	1.8	--	0.03 J	ND<0.20	5.6	7.8		
PER20-0.5	0.5	10/27/18	4.0 D1	7.8	--	0.03 J	ND<0.20	6.4	10		
PER21-0.5	0.5	10/27/18	2.3 D1	2.6	--	0.05 J	ND<0.20	11	18		
PER22-0.5	0.5	10/27/18	3.8 D1	8.2	--	0.05 J	ND<0.20	74	110		
DUP-3	0.5	10/27/18	3.8 D1	34	--	0.05 J	ND<0.20	500	830		
PER22-1.5	1.5	10/27/18	--	--	--	--	--	7.8	10		
PER22-NW-0.5	0.5	11/03/18	--	--	--	--	--	6.3	7.1		
PER22-NW-1.5	1.5	11/03/18	--	--	--	--	--	13	18		
PER22-NE-0.5	0.5	11/03/18	--	--	--	--	--	9.0	9.6		
PER22-NE-1.5	1.5	11/03/18	--	--	--	--	--	4.8	5.2		

Table 1
Summary of Metal and Total Petroleum Hydrocarbon Results in Soil
LAUSD - Colfax Charter Elementary School, Los Angeles, California

Sample ID	Depth (ft bgs)	Sample Date	EPA 6020 (mg/kg)	EPA 6010 (mg/kg)	CA-WET (mg/L)	EPA 7471A (mg/kg)	EPA Method 8015B (mg/kg)				
			Arsenic	Lead	STLC (Lead)	Mercury	GRO	DRO	ORO		
Regulatory Guidance Screening Levels (mg/kg)											
USEPA RSL ²			0.68	400	--	11	--	--	--		
DTSC SLs ³			0.11	80⁵	--	1.0	--	--	--		
DTSC Background ⁴			12	--	--	--	--	--	--		
SFRWQCB ESLs ⁶			0.067	80	--	13	100	230	5,100		
STLC (mg/L)			--	--	5	--	--	--	--		
PER23-0.5	0.5	10/27/18	3.2 D1	3.0	--	0.04 J	ND<0.20	13	22		
PER24-0.5	0.5	10/27/18	4.1 D1	64	8.3	0.06 J	ND<0.20	43	100		
PER25-0.5	0.5	10/27/18	4.6 D1	37	--	0.05 J	ND<0.20	8.7	20		
PER26-0.5	0.5	10/27/18	4.4 D1	2.9	--	0.04 J	ND<0.20	9.6	19		
PER27-0.5	0.5	10/27/18	7.1 D1	2.3	--	0.05 J	ND<0.20	4.8	7.3		
PER28-0.5	0.5	10/27/18	7.5 D1	1.5	--	0.06 J	ND<0.20	1.2	3.1		
PER29-0.5	0.5	10/27/18	6.6 D1	2.1	--	0.06 J	ND<0.20	2.8	6.5		

Notes and Abbreviations:

- Bold** value indicates analyte detected above the laboratory method detection limit (MDL). A yellow-shaded cell indicates where a chemical concentration exceeds a regulatory screening level.
 - USEPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites (May 2018). Criteria selected: Residential soil, Total Hazard Quotient = 1.0, Target risk of 1.0E-6
 - Department of Toxic Substances Control (DTSC), Modified Screening Levels (SLs), Human Health Risk Assessment Note 3, June 2018. Criteria selected: residential soil, lowest value of the cancer and non-cancer endpoint
 - DTSC, Determination of a Southern California Regional Background Arsenic Concentration in Soil (March 2008)
 - DTSC recommends that a 95% upper confidence limit on the arithmetic mean calculated to be 80 mg/kg or less is protective of human health
 - San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (February 2016)
- ND: Analyte is not detected at or above the denoted method detection limit
- J: Estimated concentration. The value falls between the laboratory MDL and the practical quantitation limit (PQL)
- D1: Sample required dilution due to possible matrix interference
- CA-WET: California Title 22 waste extraction test
- STLC: soluble threshold limit concentration
- mg/kg: milligrams per kilogram
- mg/L: milligrams per liter
- ft bgs: feet below ground surface
- : not analyzed or no published value

Table 2
Summary of Organochlorine Pesticide Results in Soil
LAUSD - Colfax Charter Elementary School, Los Angeles, California

Sample ID	Depth (ft bgs)	Sample Date	EPA Method 8081A ($\mu\text{g/kg}$)																					
			Dichlorodiphenyl dichloroethane (4,4'-DDD)	Dichlorodiphenyl dichloroethylene (4,4'-DDE)	Dichlorodiphenyltrichloroethane (4,4'-DDT)	Aldrin	Alpha-hexachlorocyclohexane (alpha-BHC)	Alpha-Chlordane	Beta-hexachlorocyclohexane (beta-BHC)	Chlordane (technical)	Delta-hexachlorocyclohexane (delta-BHC)	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin Ketone	Gamma-BHC (Lindane)	Gamma-Chlordane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
PER1-0.5	0.5	10/27/2018	1.6 J	ND<0.53	ND<1.0	ND<0.37	ND<1.1	10	ND<0.6	57 J	ND<0.33	93	ND<1.0	ND<0.29	ND<0.77	ND<0.39	ND<3.1	ND<1.3	ND<1.0	4.9 J	ND<0.47	4.4 J	ND<1.8	ND<47
DUP-1	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER1-1.5	1.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER1-S-0.5	0.5	12/21/18	ND<0.07	5.9	5.0	ND<0.12	ND<0.11	18	ND<0.06	180	ND<0.12	30	ND<0.10	ND<0.15	ND<0.16	ND<0.14	ND<0.31	ND<0.13	ND<0.10	13	ND<0.12	3.1	ND<0.18	ND<4.7
PER1-SE-0.5	0.5	11/03/18	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	210	ND<0.03	36	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	17	ND<0.05	6.4	ND<0.18	ND<4.7
PER1-SE-1.5	1.5	11/03/18	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER1-SE2-0.5	0.5	12/21/18	ND<0.07	ND<0.11	ND<0.10	ND<0.12	ND<0.11	2.9	ND<0.06	27	ND<0.12	6.4	ND<0.10	ND<0.15	ND<0.16	ND<0.14	ND<0.31	ND<0.13	ND<0.10	1.9	ND<0.12	0.66 J	ND<0.18	ND<4.7
PER1-SW-0.5	0.5	11/03/18	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	10	ND<0.06	94	ND<0.03	39	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	7.1	ND<0.05	5.8	ND<0.18	ND<4.7
PER1-SW-1.5	1.5	11/03/18	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	0.70 J	ND<0.06	7.1 J	ND<0.03	2.7	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	0.43 J	ND<0.05	0.64 J	ND<0.18	ND<4.7
PER1-SW2-0.5	0.5	12/21/18	ND<0.7	ND<1.1	ND<1.0	ND<1.2	ND<1.1	320	ND<0.60	2600	ND<1.2	70	ND<1.0	ND<1.5	ND<1.6	ND<1.4	ND<3.1	ND<1.0	ND<1.2	38	ND<1.8	ND<47		
PER1-SW2-1.0	1	12/21/18	ND<0.35	ND<0.54	ND<0.50	ND<0.62	ND<0.53	63	ND<0.30	440	ND<0.62	12	ND<0.50	ND<0.77	ND<0.80	ND<0.68	ND<1.6	ND<0.63	ND<0.52	40	ND<0.59	ND<0.44	ND<0.89	ND<23
PER2-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	6.6	ND<0.06	63	ND<0.03	33	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	3.4	ND<0.05	3.4	ND<0.18	ND<4.7
PER3-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER4-0.5	0.5	10/27/2018	ND<0.07	1.6 J	ND<0.10	ND<0.04	ND<0.11	4.1	ND<0.06	49	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	2.1	ND<0.05	3.8	ND<0.18	ND<4.7
PER5-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER6-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER7-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	0.21 J	ND<0.06	3.3 J	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	0.27 J	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER8-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	4.2	ND<0.06	40	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	1.9	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER9-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	0.13 J	ND<0.18	ND<4.7
PER10-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	ND<0.09	ND<0.18	ND<4.7
PER11-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.07	ND<0.05	0.12 J	ND<0.18	ND<4.7
PER12-0.5	0.5	10/27/2018	ND<0.07	ND<0.05	ND<0.10	ND<0.04	ND<0.11	ND<0.12	ND<0.06	ND<1.1	ND<0.03	ND<0.13	ND<0.10	ND<0.03	ND<0.08	ND<0.04	ND<0.31	ND<0.13	ND<0.10	ND<0.				

Table 3
Summary of Polychlorinated Biphenyl Results in Soil
LAUSD - Colfax Charter Elementary School, Los Angeles, California

Sample ID	Depth (ft bgs)	Sample Date	EPA Method 8082 (µg/kg)								
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
PER1-0.5	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
DUP-1	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
PER11-0.5	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
DUP-2	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
PER21-0.5	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
PER22-0.5	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
DUP-3	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
PER24-0.5	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
PER25-0.5	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
PER27-0.5	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
PER28-0.5	0.5	10/27/2018	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6	ND<4.6
Regulatory Guidance Screening Levels (µg/kg)											
USEPA RSL ²		4,100	200	170	230	230	240	240	--	--	
DTSC SLs ³		--	--	--	--	--	--	440	--	--	

Notes and Abbreviations:

1. **Bold** value indicates analyte detected above the laboratory method detection limit (MDL)
2. USEPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites (May 2018). Criteria selected: Residential soil, Total Hazard Quotient = 1.0, Target risk of 1.0E-6
3. Department of Toxic Substances Control (DTSC), Modified Screening Levels (SLs), Human Health Risk Assessment Note 3, June 2018. Criteria selected: residential soil, lowest value of the cancer and non-cancer endpoint

ND: Analyte is not detected at or above the denoted method detection limit.

µg/kg: micrograms per kilogram

ft bgs: feet below ground surface

APPENDIX A

REFERENCES

APPENDIX A

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_____, Interim Guidance for Sampling Agricultural Properties (Third Revision), dated April 30, 2008.

_____, Preliminary Endangerment Assessment Guidance Manual, January 1994, Revised October 2015.

_____, Human Health Risk Assessment (HRRA) Note Number: 3, DTSC-modified screening levels, <https://www.dtsc.ca.gov/AssessingRisk/upload/HHRA-Note-3-2016-01.pdf>, January 2018.

United States Census Bureau, Profile of General Population and Housing Characteristics: 2010, Zip Code 91607, <http://factfinder.census.gov/>, 2010.

United States Environmental Protection Agency (EPA), Regional Screening Levels, Region 9: Pacific Southwest, Residential Soil Tables (TR-1E-06, THQ=1.0), <http://www.epa.gov/region9/superfund/prg/>, May 2018.

WorleyParsons, Phase I Environmental Site Assessment, Colfax Elementary School, 11724 Addison Street, Los Angeles, California, January 21, 2016.

APPENDIX B

BORING LOGS



Leighton

MAJOR DIVISIONS					TYPICAL NAMES	
COARSE GRAINED SOILS More than Half > #200 sieve	GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES	
		GRAVELS WITH OVER 15% FINES	GP		POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES	
			GM		SILTY GRAVELS, POORLY GRADED GRAVEL-SAND-SILT MIXTURES	
			GC		CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND-CLAY MIXTURES	
	SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS WITH LITTLE OR NO FINES	SW		WELL GRADED SANDS, GRAVELLY SANDS	
		SANDS WITH OVER 15% FINES	SP		POORLY GRADED SANDS, GRAVELLY SANDS	
			SM		SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES	
			SC		CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES	
FINE GRAINED SOILS More than Half < #200 sieve	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 CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACIOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS	
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
	HIGHLY ORGANIC SOILS			Pt	PEAT AND OTHER HIGHLY ORGANIC SOILS	

SYMBOLS AND NOTES

= Sample Interval (Glass Jar)

= Sample Interval (Sleeve/Ring)

= Water Level at Time of Drilling

= Water Level After Drilling

USCS = Unified Soil Classification System

PID = Photoionization Detector

ppm = Parts Per Million

CLAST SIZE (Field Classification)

Gravel = >0.2 inches
Sand = 0.003 - 0.2 inches
Silt = <0.003 (not plastic)
Clay = <0.003 (plastic)

DESCRIPTORS

Trace = 1% - 5%
Some = 6% - 10%
With = 11% - 25%
Clast Size + "y" = 26% - 40%
And = >40%

DENSITY DESCRIPTORS (Sands)

4-10 blows per foot = Loose
10-30 blows per foot = Medium Dense
30-50 blows per foot = Dense
>50 blows per foot = Very Dense

DENSITY DESCRIPTORS (Silts/Clays)

2-4 blows per foot = Soft
4-8 blows per foot = Medium Stiff
8-15 blows per foot = Stiff
15-30 blows per foot = Very Stiff
>30 blows per foot = Hard

BORING LOG EXPLANATION





SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER1
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

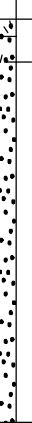
DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER1-0.5 / DUP-1					@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER1-1.5			SM		@1.5: Silty SAND: brown, loose, moist, fine-grained, rootlets present, no staining, no odor
3			PER1-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008
PROJECT NAME LAUSD Colfax Elementary School SSI
LOCATION 11724 Addison Street, Valley Village, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Glass Jar
GROUND ELEVATION
TOP OF CASING NA
LOGGED BY KCH
REMARKS Boring completed by Leighton Consulting, Inc.

BORING/WELL NUMBER PER1-S
DATE DRILLED 12/21/2018
CASING TYPE/DIAMETER NA / NA
SCREEN TYPE/SLOT NA / NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY NA / NA
DEPTH TO WATER --
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	LITHOLOGIC DESCRIPTION	
							GRAPHIC LOG	
1			PER1-S-0.5			SM		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.) @0.5': SILT: light brown, soft, moist, no staining, no odor
2			PER1-S-1.5					Total Depth = 1.5 feet bgs Total Sampled Depth = 1.5 feet bgs No groundwater encountered Backfilled boring with ~6 -inches of hydrated bentonite (bottom) and capped with native material
3								
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER1-SE
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 11/3/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental. Step-out boring location located approximately 5 feet southeast of PER1.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER1-SE-0.5					@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER1-SE-1.5			SM		@1.5: Silty SAND: brown, loose, moist, fine-grained, rootlets present, no staining, no odor
3			PER1-SE-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008
PROJECT NAME LAUSD Colfax Elementary School SSI
LOCATION 11724 Addison Street, Valley Village, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Glass Jar
GROUND ELEVATION
TOP OF CASING NA
LOGGED BY KCH
REMARKS Boring completed by Leighton Consulting, Inc.

BORING/WELL NUMBER PER1-SE2
DATE DRILLED 12/21/2018
CASING TYPE/DIAMETER NA / NA
SCREEN TYPE/SLOT NA / NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY NA / NA
DEPTH TO WATER --
GROUND WATER ELEVATION

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PIID (ppm)	U.S.C.S.	LITHOLOGIC DESCRIPTION	
							GRAPHIC LOG	
1			PER1-SE2-0.5			SM		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.) @0.5': SILT: light brown, soft, moist, no staining, no odor
2			PER1-SE2-1.5					Total Depth = 1.5 feet bgs Total Sampled Depth = 1.5 feet bgs No groundwater encountered Backfilled boring with ~6 -inches of hydrated bentonite (bottom) and capped with native material
3								
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER1-SW
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 11/3/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental. Step-out boring location located approximately 5 feet southwest of PER1.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER1-SW-0.5					@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER1-SW-1.5			SM		@1.5: Silty SAND: brown, loose, moist, fine-grained, rootlets present, no staining, no odor
3			PER1-SW-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER1-SW2
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 12/21/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY KCH GROUND WATER ELEVATION
REMARKS Boring completed by Leighton Consulting, Inc.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	PID (ppm)	U.S.C.S.	LITHOLOGIC DESCRIPTION	
							GRAPHIC LOG	
1			PER1-SW2-1.0 PER1-SW2-0.5			SM		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.) @0.5': SILT: light brown, soft, moist, no staining, no odor Total Depth = 1.0 feet bgs Total Sampled Depth = 1.0 feet bgs Hand auger refusal at 1.0 foot bgs due to tree roots No groundwater encountered Backfilled boring with ~6 -inches of hydrated bentonite (bottom) and capped with native material
2								
3								
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER2
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER2-0.5					@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER2-1.5			SM		@1.5: Silty SAND: brown, loose, moist, fine-grained, no staining, no odor
3			PER2-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

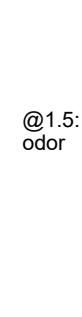
PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER3
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER3-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER3-1.5			SM	@1.5: Silty SAND: very dark grayish brown, loose, moist, fine-grained, rootlets present, no staining, no odor
3			PER3-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER4
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER4-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER4-1.5			SP		@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER4-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER5
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER5-0.5					@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER5-1.5			SM		@1.5: Silty SAND: dark grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER5-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER6
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER6-0.5					@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER6-1.5			SM		@1.5: Silty SAND: dark grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER6-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

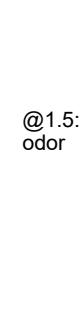
PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER7
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER7-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER7-1.5			SM	@1.5: Silty SAND: brown, loose, moist, fine-grained, no staining, no odor
3			PER7-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

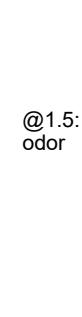
PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER8
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER8-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER8-1.5			SP		@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER8-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER9
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER9-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER9-1.5			SP		@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER9-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER10
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER10-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER10-1.5			SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER10-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER11
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER11-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER11-1.5			SP	@1.5: Poorly-graded SAND: dark grayish brown, loose, moist, fine-grained, with silt, no staining, no odor
3			PER11-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

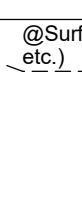
PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER12
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER12:0.5 / DUP-2				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER12:1.5			SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER12:3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

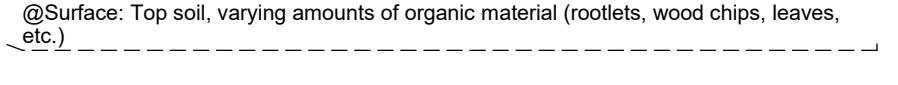
PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER12-NE
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 11/3/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental. Step-out boring location located approximately 5 feet northeast of PER12.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER12-NE-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER12-NE-1.5					@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER12-NE-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER12-SE
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 11/3/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental. Step-out boring location located approximately 5 feet southeast of PER12.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER12-SE-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER12-SE-1.5					@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER12-SE-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER13
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER13-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER13-1.5			SP	@1.5: Poorly-graded SAND: dark grayish brown, loose, moist, fine-grained, with silt, no staining, no odor
3			PER13-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER14
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER14-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER14-1.5			SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER14-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER14-NE
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 11/3/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental. Step-out boring location located approximately 5 feet northeast of PER14.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER14-NE-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER14-NE-1.5					@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER14-NE-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER14-SE
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 11/3/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental. Step-out boring location located approximately 5 feet southeast of PER14.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER14-SE-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER14-SE-1.5					@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER14-SE-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER15
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER15-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER15-1.5			SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER15-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER16
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER16-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER16-1.5			SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER16-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER17
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER17-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER17-1.5			SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER17-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER18
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER18-0.5			SP	 @Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER18-1.5			SP	 @1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER18-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER19
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER19-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER19-1.5			SP	@1.5: Poorly-graded SAND: dark grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER19-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER20
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER20-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER20-1.5					@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, wood fragments present, no staining, no odor
3			PER20-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER21
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER21-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
1.5			PER21-1.5	Hand		SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER21-3.0	Hand			Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER22
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER22-0.5 / DUP-3				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER22-1.5			SM	@1.5: Silty SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER22-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER	11640.008	BORING/WELL NUMBER	PER22-NE
PROJECT NAME	LAUSD Colfax Elementary School SSI	DATE DRILLED	11/3/2018
LOCATION	11724 Addison Street, Valley Village, CA	CASING TYPE/DIAMETER	NA / NA
DRILLING METHOD	Hand Auger	SCREEN TYPE/SLOT	NA / NA
SAMPLING METHOD	Glass Jar	GRAVEL PACK TYPE	NA
GROUND ELEVATION		GROUT TYPE/QUANTITY	NA / NA
TOP OF CASING	NA	DEPTH TO WATER	--
LOGGED BY	SAG/RAL	GROUND WATER ELEVATION	
REMARKS	Boring completed by Strongarm Environmental. Step-out boring location located approximately 5 feet northeast of PER22.		

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER22-NE-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER22-NE-1.5			SM	@1.5: Silty SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER22-NE-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008
PROJECT NAME LAUSD Colfax Elementary School SSI
LOCATION 11724 Addison Street, Valley Village, CA
DRILLING METHOD Hand Auger
SAMPLING METHOD Glass Jar
GROUND ELEVATION
TOP OF CASING NA
LOGGED BY SAG/RAL
REMARKS Boring completed by Strongarm Environmental. Step-out boring location located approximately 5 feet northwest of PER22.

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER22-NW-0.5					@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER22-NW-1.5			SM		@1.5: Silty SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER22-NW-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER23
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER23-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER23-1.5			SM	@1.5: Silty SAND: brown, loose, moist, fine-grained, no staining, no odor
3			PER23-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER24
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER24-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER24-1.5			SM	@1.5: Silty SAND: dark grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER24-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

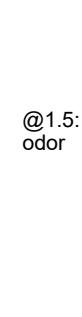
PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER25
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER25-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER25-1.5			SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER25-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER26
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER26-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER26-1.5			SP		@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER26-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

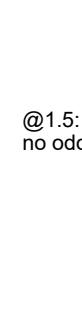
PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER27
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION			
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG
1			PER27-0.5				@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER27-1.5			SP	@1.5: Poorly-graded SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER27-3.0				Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4							
5							



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER28
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER28-0.5			SP		@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER28-1.5			SP		@1.5: Poorly-graded SAND: light grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER28-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								



SOIL BORING LOG

PROJECT NUMBER 11640.008 BORING/WELL NUMBER PER29
PROJECT NAME LAUSD Colfax Elementary School SSI DATE DRILLED 10/27/2018
LOCATION 11724 Addison Street, Valley Village, CA CASING TYPE/DIAMETER NA / NA
DRILLING METHOD Hand Auger SCREEN TYPE/SLOT NA / NA
SAMPLING METHOD Glass Jar GRAVEL PACK TYPE NA
GROUND ELEVATION GROUT TYPE/QUANTITY NA / NA
TOP OF CASING NA DEPTH TO WATER --
LOGGED BY SAG/RAL GROUND WATER ELEVATION
REMARKS Boring completed by Strongarm Environmental

DEPTH (ft. BGL)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	LITHOLOGIC DESCRIPTION				
				EXTENT	PID (ppm)	U.S.C.S.	GRAPHIC LOG	
1			PER29-0.5					@Surface: Top soil, varying amounts of organic material (rootlets, wood chips, leaves, etc.)
2			PER29-1.5			SM		@1.5: Silty SAND: grayish brown, loose, moist, fine-grained, no staining, no odor
3			PER29-3.0					Total Depth = 3.0 feet bgs Total Sampled Depth = 3.0 feet bgs No groundwater encountered Backfilled boring with native material
4								
5								

APPENDIX C

PHOTOGRAPHIC LOG



Leighton



Leighton Consulting, Inc.

PHOTOGRAPHIC LOG

10/27/18, 11/3/18, and 12/21/18

Client Name:	Site Location:	Project No.
Los Angeles Unified School District	Colfax Elementary School, 11724 Addison Street, Valley Village, California	11640.008

Photo No. 1 View Direction of Photo: North	 Description: Poster-board sized field notification posted along the southern boundary fence of the Site.
--	--

10/27/2018

Photo No. 2 View Direction of Photo: North	 Description: Geophysical survey at sample location PER29 to determine if the location was in conflict with underground utilities.
--	---

10/27/2018



Leighton Consulting, Inc.

PHOTOGRAPHIC LOG

10/27/18, 11/3/18, and 12/21/18

Client Name:
Los Angeles Unified School District

Site Location: Colfax Elementary School,
11724 Addison Street, Valley Village, California

Project No.
11640.008

Photo No. 3

View Direction of Photo:

North

Description:

Soil boring
advancement using a
hand auger at sample
location PER3.



Photo No. 4

View Direction of Photo:

North

Description:

Soil from discrete
depths was placed into 8-ounce glass
jars for laboratory
analysis.





Leighton Consulting, Inc.

PHOTOGRAPHIC LOG

10/27/18, 11/3/18, and 12/21/18

Client Name:
Los Angeles Unified School District

Site Location: Colfax Elementary School,
11724 Addison Street, Valley Village, California

Project No.
11640.008

Photo No. 5

View Direction of Photo:

Southwest

Description:

Step-out soil boring location PER1-S is located approximately 5 feet from a building.



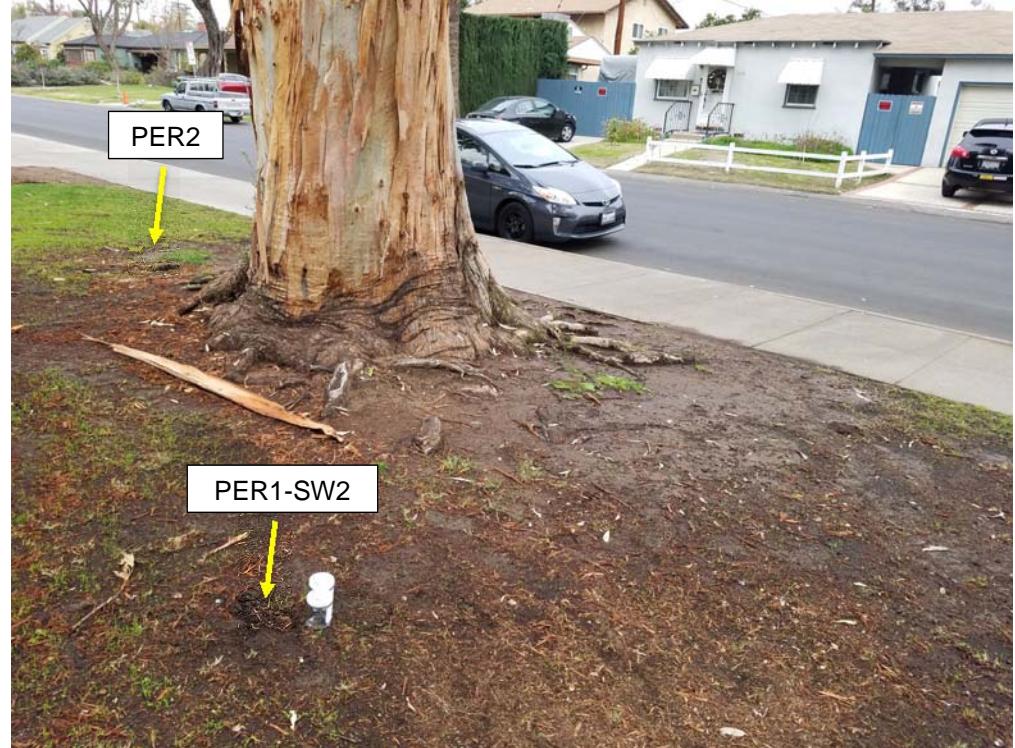
Photo No. 6

View Direction of Photo:

Northwest

Description:

Large trees are present within the area of recommended OCP-impacted soil removal.



APPENDIX D

LABORATORY ANALYTICAL REPORTS



Leighton



November 09, 2018

Ross Surrency
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1804036
Client Reference : LAUSD- Colfax ES, 11640.008

Enclosed are the results for sample(s) received on October 29, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez".

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PER1-0.5	1804036-01	Soil	10/27/18 7:38	10/29/18 10:48
PER1-1.5	1804036-02	Soil	10/27/18 7:39	10/29/18 10:48
PER2-0.5	1804036-04	Soil	10/27/18 7:45	10/29/18 10:48
PER3-0.5	1804036-07	Soil	10/27/18 7:51	10/29/18 10:48
DUP-1	1804036-10	Soil	10/27/18 7:40	10/29/18 10:48
PER4-0.5	1804036-11	Soil	10/27/18 8:05	10/29/18 10:48
PER5-0.5	1804036-14	Soil	10/27/18 8:18	10/29/18 10:48
PER6-0.5	1804036-17	Soil	10/27/18 8:27	10/29/18 10:48
PER7-0.5	1804036-20	Soil	10/27/18 8:37	10/29/18 10:48
PER8-0.5	1804036-23	Soil	10/27/18 8:45	10/29/18 10:48
PER9-0.5	1804036-26	Soil	10/27/18 8:53	10/29/18 10:48
PER10-0.5	1804036-29	Soil	10/27/18 9:01	10/29/18 10:48
PER11-0.5	1804036-32	Soil	10/27/18 9:26	10/29/18 10:48
PER12-0.5	1804036-35	Soil	10/27/18 9:35	10/29/18 10:48
PER12-1.5	1804036-36	Soil	10/27/18 9:37	10/29/18 10:48
DUP-2	1804036-38	Soil	10/27/18 9:36	10/29/18 10:48
PER13-0.5	1804036-39	Soil	10/27/18 10:11	10/29/18 10:48
PER14-0.5	1804036-42	Soil	10/27/18 10:17	10/29/18 10:48
PER14-1.5	1804036-43	Soil	10/27/18 10:19	10/29/18 10:48
PER14-3.0	1804036-44	Soil	10/27/18 10:20	10/29/18 10:48
PER15-0.5	1804036-45	Soil	10/27/18 10:24	10/29/18 10:48
PER16-0.5	1804036-48	Soil	10/27/18 10:51	10/29/18 10:48
PER17-0.5	1804036-51	Soil	10/27/18 10:57	10/29/18 10:48
PER18-0.5	1804036-54	Soil	10/27/18 11:04	10/29/18 10:48
PER19-0.5	1804036-57	Soil	10/27/18 11:10	10/29/18 10:48
PER20-0.5	1804036-60	Soil	10/27/18 11:15	10/29/18 10:48
PER21-0.5	1804036-63	Soil	10/27/18 11:23	10/29/18 10:48
DUP-3	1804036-66	Soil	10/27/18 11:35	10/29/18 10:48
PER22-0.5	1804036-67	Soil	10/27/18 11:33	10/29/18 10:48
PER22-1.5	1804036-68	Soil	10/27/18 11:36	10/29/18 10:48
PER23-0.5	1804036-70	Soil	10/27/18 11:41	10/29/18 10:48
PER24-0.5	1804036-73	Soil	10/27/18 11:48	10/29/18 10:48
PER25-0.5	1804036-76	Soil	10/27/18 12:34	10/29/18 10:48
PER26-0.5	1804036-79	Soil	10/27/18 12:41	10/29/18 10:48
PER27-0.5	1804036-82	Soil	10/27/18 12:46	10/29/18 10:48
PER28-0.5	1804036-85	Soil	10/27/18 12:52	10/29/18 10:48
PER29-0.5	1804036-88	Soil	10/27/18 12:59	10/29/18 10:48



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

EB-1 1804036-91 Water 10/27/18 9:50 10/29/18 10:48

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER1-0.5

Lab ID: 1804036-01

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	4.0	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:12	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.0	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:20	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:31	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1.5	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:44	
ORO	4.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:44	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	1.6	20	0.70	10	B8J0820	10/30/2018	10/31/18 20:28	J
alpha-Chlordane	10	10	1.2	10	B8J0820	10/30/2018	10/31/18 20:28	
Chlordane [2C]	57	85	11	10	B8J0820	10/30/2018	10/31/18 20:28	J
Dieldrin	93	20	1.3	10	B8J0820	10/30/2018	10/31/18 20:28	
gamma-Chlordane	4.9	10	0.70	10	B8J0820	10/30/2018	10/31/18 20:28	J
Heptachlor epoxide [2C]	4.4	10	0.89	10	B8J0820	10/30/2018	10/31/18 20:28	J



Certificate of Analysis

Leighton Consulting, Inc.
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Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER2-0.5

Lab ID: 1804036-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.8	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:16	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.9	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 13:01	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:41	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.0	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:10	
ORO	8.1	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:10	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane	6.6	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 21:50	
Chlordane	63	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 21:50	
Dieldrin [2C]	33	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 21:50	
gamma-Chlordane [2C]	3.4	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 21:50	
Heptachlor epoxide	3.4	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 21:50	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER3-0.5

Lab ID: 1804036-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	5.4	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:17	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.0	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:25	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:42	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:27	
ORO	3.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:27	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID DUP-1

Lab ID: 1804036-10

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	0.63	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:19 J	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.7	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:25 D1	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:44 J	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:18	
ORO	1.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:18	



Certificate of Analysis

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Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER4-0.5

Lab ID: 1804036-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	15	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:20	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	7.0	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:26	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:50	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4.4	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 22:52	
ORO	8.8	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 22:52	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDE [2C]	1.6	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:22	J
alpha-Chlordane	4.1	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 22:22	
Chlordane [2C]	49	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 22:22	
gamma-Chlordane	2.1	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:22	
Heptachlor epoxide [2C]	3.8	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 22:22	



Certificate of Analysis

Leighton Consulting, Inc.
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Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER5-0.5

Lab ID: 1804036-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	6.6	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:21	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.2	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:29	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.07	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:52	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.0	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:10	
ORO	9.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:10	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER6-0.5

Lab ID: 1804036-17

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.6	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:22	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.7	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 13:02	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.08	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:54	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.7	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:18	
ORO	9.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:18	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER7-0.5

Lab ID: 1804036-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.6	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 15:55	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:30 D1	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.07	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:56 J	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.0	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:35	
ORO	3.7	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:35	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane	0.21	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 22:53 J	
Chlordane [2C]	3.3	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 22:53 J	
gamma-Chlordane [2C]	0.27	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:53 J	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER8-0.5

Lab ID: 1804036-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	9.4	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 15:56	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	8.3	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:31	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.07	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:58	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	10	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:44	
ORO	27	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:44	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane	4.2	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 23:04	
Chlordane	40	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 23:04	
gamma-Chlordane	1.9	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:04	



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DETECTION SUMMARY

Client Sample ID PER9-0.5

Lab ID: 1804036-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	0.98	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 15:58 J	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.7	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:32 D1	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.08	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:00 J	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.0	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:35	
ORO	2.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:35	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Heptachlor epoxide [2C]	0.13	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 23:14 J	



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Project Number : LAUSD- Colfax ES, 11640.008
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DETECTION SUMMARY

Client Sample ID PER10-0.5

Lab ID: 1804036-29

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	0.71	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 15:59 J	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.7	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:33 D1	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:01 J	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.8	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:00	
ORO	3.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:00	



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DETECTION SUMMARY

Client Sample ID PER11-0.5

Lab ID: 1804036-32

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.4	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:00	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.2	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:34	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:03	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:27	
ORO	13	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:27	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Heptachlor epoxide [2C]	0.12	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 23:35	J



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DETECTION SUMMARY

Client Sample ID PER12-0.5

Lab ID: 1804036-35

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	18	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:02	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	11	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:35	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.10	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:05	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	110	5.0	5.0	5	B8J0859	10/31/2018	11/01/18 00:54	
ORO	140	5.0	5.0	5	B8J0859	10/31/2018	11/01/18 00:54	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-BHC	1.9	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 23:45	
delta-BHC [2C]	0.89	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:45	J

Client Sample ID PER12-1.5

Lab ID: 1804036-36

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.2	1.0	0.04	20	B8K0091	11/02/2018	11/04/18 14:49	D1



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DETECTION SUMMARY

Client Sample ID DUP-2

Lab ID: 1804036-38

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	20	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:03	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	12	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:35	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:07	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	220	5.0	5.0	5	B8J0859	10/31/2018	11/01/18 01:11	
ORO	240	5.0	5.0	5	B8J0859	10/31/2018	11/01/18 01:11	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDE	7.9	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:56	
Aldrin [2C]	1.1	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:56	
delta-BHC [2C]	2.0	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:56	



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DETECTION SUMMARY

Client Sample ID PER13-0.5

Lab ID: 1804036-39

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	13	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:04	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	10	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:36	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.04	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:13	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	24	1.0	1.0	1	B8J0859	10/31/2018	11/01/18 00:19	
ORO	40	1.0	1.0	1	B8J0859	10/31/2018	11/01/18 00:19	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	0.35	2.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:06	J



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DETECTION SUMMARY

Client Sample ID PER14-0.5

Lab ID: 1804036-42

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	14	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:05	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	12	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:39	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.04	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:14	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	13	1.0	1.0	1	B8J0859	10/31/2018	11/01/18 00:01	
ORO	23	1.0	1.0	1	B8J0859	10/31/2018	11/01/18 00:01	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane	0.79	1.0	0.12	1	B8J0820	10/30/2018	10/31/18 00:17	J
Chlordane [2C]	8.8	8.5	1.1	1	B8J0820	10/30/2018	10/31/18 00:17	
gamma-Chlordane	0.87	1.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:17	J

Client Sample ID PER14-1.5

Lab ID: 1804036-43

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	13	1.0	0.04	20	B8K0091	11/02/2018	11/04/18 14:52	D1



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DETECTION SUMMARY

Client Sample ID PER14-3.0

Lab ID: 1804036-44

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	9.9	1.0	0.04	20	B8K0289	11/08/2018	11/08/18 14:57 D1	



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DETECTION SUMMARY

Client Sample ID PER15-0.5

Lab ID: 1804036-45

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	67	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:06	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.1	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:40	D1

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.7	1.0	20		B8K0286	11/08/2018	11/08/18 15:07	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.07	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:16	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	120	10	10	10	B8J0859	10/31/2018	11/01/18 00:36	
ORO	260	10	10	10	B8J0859	10/31/2018	11/01/18 00:36	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDT	10	2.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:27	
alpha-Chlordane	6.5	1.0	0.12	1	B8J0820	10/30/2018	10/31/18 00:27	
Chlordane	72	8.5	1.1	1	B8J0820	10/30/2018	10/31/18 00:27	
gamma-Chlordane [2C]	5.8	1.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:27	



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Project Number : LAUSD- Colfax ES, 11640.008
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DETECTION SUMMARY

Client Sample ID PER16-0.5

Lab ID: 1804036-48

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	7.3	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:13	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.3	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:40	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:18	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:52	
ORO	12	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:52	



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DETECTION SUMMARY

Client Sample ID PER17-0.5

Lab ID: 1804036-51

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.0	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:14	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.9	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:41	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.02	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:20	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9.1	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:08	
ORO	24	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:08	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER18-0.5

Lab ID: 1804036-54

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.6	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:45	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.0	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:44	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:26	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8.9	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 04:50	
ORO	12	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 04:50	



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Project Number : LAUSD- Colfax ES, 11640.008
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DETECTION SUMMARY

Client Sample ID PER19-0.5

Lab ID: 1804036-57

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.8	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:50	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:39 J	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.6	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 04:16	
ORO	7.8	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 04:16	



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DETECTION SUMMARY

Client Sample ID PER20-0.5

Lab ID: 1804036-60

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	7.8	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:51	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.0	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:50	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:41	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.4	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:00	
ORO	10	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:00	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.13	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 10:50	J
alpha-Chlordane [2C]	0.12	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 10:50	J
Chlordane	1.4	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 10:50	J
gamma-Chlordane	0.09	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 10:50	J



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Project Number : LAUSD- Colfax ES, 11640.008
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DETECTION SUMMARY

Client Sample ID PER21-0.5

Lab ID: 1804036-63

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.6	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:52	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.3	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:50	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:43	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	11	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:42	
ORO	18	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:42	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.15	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:01	J



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DETECTION SUMMARY

Client Sample ID DUP-3

Lab ID: 1804036-66

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	34	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:53	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.8	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:51	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:45	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	500	10	10	10	B8J0879	10/31/2018	11/01/18 07:44	
ORO	830	10	10	10	B8J0879	10/31/2018	11/01/18 07:44	



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DETECTION SUMMARY

Client Sample ID PER22-0.5

Lab ID: 1804036-67

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	8.2	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:57	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.8	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:52	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:47	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	74	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:52	
ORO	110	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:52	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
beta-BHC	0.70	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 11:22	J
gamma-BHC [2C]	0.37	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:22	J

Client Sample ID PER22-1.5

Lab ID: 1804036-68

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7.8	1.0	1.0	1	B8K0152	11/05/2018	11/06/18 12:27	
ORO	10	1.0	1.0	1	B8K0152	11/05/2018	11/06/18 12:27	



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DETECTION SUMMARY

Client Sample ID PER23-0.5

Lab ID: 1804036-70

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.0	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:58	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.2	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:53	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.04	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:48	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	13	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:25	
ORO	22	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:25	



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DETECTION SUMMARY

Client Sample ID PER24-0.5

Lab ID: 1804036-73

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	64	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:59	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:54	D1

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	8.3	1.0		20	B8K0286	11/08/2018	11/08/18 15:11	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:50	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	43	5.0	5.0	5	B8J0879	10/31/2018	11/01/18 08:02	
ORO	100	5.0	5.0	5	B8J0879	10/31/2018	11/01/18 08:02	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-BHC	1.7	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 11:43	
alpha-Chlordane	2.7	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 11:43	
Chlordane [2C]	27	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 11:43	
gamma-Chlordane	2.4	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:43	



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DETECTION SUMMARY

Client Sample ID PER25-0.5

Lab ID: 1804036-76

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	37	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:01	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.6	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:55	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:52	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8.7	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 07:27	
ORO	20	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 07:27	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDE [2C]	1.8	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:53	J
alpha-Chlordane	0.85	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 11:53	J
Chlordane [2C]	8.8	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 11:53	
gamma-Chlordane	0.69	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:53	J



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DETECTION SUMMARY

Client Sample ID PER26-0.5

Lab ID: 1804036-79

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.9	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:02	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.4	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:55	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.04	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:58	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9.6	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 07:09	
ORO	19	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 07:09	



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DETECTION SUMMARY

Client Sample ID PER27-0.5

Lab ID: 1804036-82

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.3	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:03	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	7.1	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:56	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 13:00	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4.8	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:17	
ORO	7.3	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:17	



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DETECTION SUMMARY

Client Sample ID PER28-0.5

Lab ID: 1804036-85

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.5	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:04	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	7.5	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:59	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 13:02	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1.2	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 03:59	
ORO	3.1	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 03:59	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.10	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 12:25	J



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

DETECTION SUMMARY

Client Sample ID PER29-0.5

Lab ID: 1804036-88

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.1	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:05	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.6	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 13:00	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 13:04	J

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.8	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:34	
ORO	6.5	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:34	

Client Sample ID EB-1

Lab ID: 1804036-91

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	0.12	0.05	0.05	1	B8K0020	11/01/2018	11/01/18 12:30	
ORO	0.11	0.05	0.05	1	B8K0020	11/01/2018	11/01/18 12:30	



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER1-0.5

Lab ID: 1804036-01

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	4.0	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:12	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.0	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:20	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:31	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 10:08	
Surrogate: 4-Bromofluorobenzene	104 %		42 - 153		B8J0773	10/30/2018	10/30/18 10:08	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1.5	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:44	
ORO	4.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:44	
Surrogate: p-Terphenyl	54.3 %		34 - 158		B8J0859	10/31/2018	10/31/18 21:44	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	1.6	20	0.70	10	B8J0820	10/30/2018	10/31/18 20:28	J
4,4'-DDE	ND	20	0.53	10	B8J0820	10/30/2018	10/31/18 20:28	
4,4'-DDT	ND	20	1.0	10	B8J0820	10/30/2018	10/31/18 20:28	



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Client Sample ID PER1-0.5

Lab ID: 1804036-01

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	10	0.37	10	B8J0820	10/30/2018	10/31/18 20:28	
alpha-BHC	ND	10	1.1	10	B8J0820	10/30/2018	10/31/18 20:28	
alpha-Chlordane	10	10	1.2	10	B8J0820	10/30/2018	10/31/18 20:28	
beta-BHC	ND	10	0.60	10	B8J0820	10/30/2018	10/31/18 20:28	
Chlordane [2C]	57	85	11	10	B8J0820	10/30/2018	10/31/18 20:28	J
delta-BHC	ND	10	0.33	10	B8J0820	10/30/2018	10/31/18 20:28	
Dieldrin	93	20	1.3	10	B8J0820	10/30/2018	10/31/18 20:28	
Endosulfan I	ND	10	1.0	10	B8J0820	10/30/2018	10/31/18 20:28	
Endosulfan II	ND	20	0.29	10	B8J0820	10/30/2018	10/31/18 20:28	
Endosulfan sulfate	ND	20	0.77	10	B8J0820	10/30/2018	10/31/18 20:28	
Endrin	ND	20	0.39	10	B8J0820	10/30/2018	10/31/18 20:28	
Endrin aldehyde	ND	20	3.1	10	B8J0820	10/30/2018	10/31/18 20:28	
Endrin ketone	ND	20	1.3	10	B8J0820	10/30/2018	10/31/18 20:28	
gamma-BHC	ND	10	1.0	10	B8J0820	10/30/2018	10/31/18 20:28	
gamma-Chlordane	4.9	10	0.70	10	B8J0820	10/30/2018	10/31/18 20:28	J
Heptachlor	ND	10	0.47	10	B8J0820	10/30/2018	10/31/18 20:28	
Heptachlor epoxide [2C]	4.4	10	0.89	10	B8J0820	10/30/2018	10/31/18 20:28	J
Methoxychlor	ND	50	1.8	10	B8J0820	10/30/2018	10/31/18 20:28	
Toxaphene	ND	500	47	10	B8J0820	10/30/2018	10/31/18 20:28	
<i>Surrogate: Decachlorobiphenyl</i>	50.4 %	43 - 84			B8J0820	10/30/2018	10/31/18 20:28	
<i>Surrogate: Tetrachloro-m-xylene</i>	50.8 %	54 - 118			B8J0820	10/30/2018	10/31/18 20:28	S10

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 10:22	
<i>Surrogate: Decachlorobiphenyl</i>	51.0 %	43 - 84			B8K0014	11/01/2018	11/01/18 10:22
<i>Surrogate: Tetrachloro-m-xylene</i>	65.1 %	54 - 118			B8K0014	11/01/2018	11/01/18 10:22



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER1-1.5

Lab ID: 1804036-02

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0267	11/07/2018	11/07/18 18:12	
4,4'-DDE	ND	2.0	0.05	1	B8K0267	11/07/2018	11/07/18 18:12	
4,4'-DDT	ND	2.0	0.10	1	B8K0267	11/07/2018	11/07/18 18:12	
Aldrin	ND	1.0	0.04	1	B8K0267	11/07/2018	11/07/18 18:12	
alpha-BHC	ND	1.0	0.11	1	B8K0267	11/07/2018	11/07/18 18:12	
alpha-Chlordane	ND	1.0	0.12	1	B8K0267	11/07/2018	11/07/18 18:12	
beta-BHC	ND	1.0	0.06	1	B8K0267	11/07/2018	11/07/18 18:12	
Chlordane	ND	8.5	1.1	1	B8K0267	11/07/2018	11/07/18 18:12	
delta-BHC	ND	1.0	0.03	1	B8K0267	11/07/2018	11/07/18 18:12	
Dieldrin	ND	2.0	0.13	1	B8K0267	11/07/2018	11/07/18 18:12	
Endosulfan I	ND	1.0	0.10	1	B8K0267	11/07/2018	11/07/18 18:12	
Endosulfan II	ND	2.0	0.03	1	B8K0267	11/07/2018	11/07/18 18:12	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0267	11/07/2018	11/07/18 18:12	
Endrin	ND	2.0	0.04	1	B8K0267	11/07/2018	11/07/18 18:12	
Endrin aldehyde	ND	2.0	0.31	1	B8K0267	11/07/2018	11/07/18 18:12	
Endrin ketone	ND	2.0	0.13	1	B8K0267	11/07/2018	11/07/18 18:12	
gamma-BHC	ND	1.0	0.10	1	B8K0267	11/07/2018	11/07/18 18:12	
gamma-Chlordane	ND	1.0	0.07	1	B8K0267	11/07/2018	11/07/18 18:12	
Heptachlor	ND	1.0	0.05	1	B8K0267	11/07/2018	11/07/18 18:12	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0267	11/07/2018	11/07/18 18:12	
Methoxychlor	ND	5.0	0.18	1	B8K0267	11/07/2018	11/07/18 18:12	
Toxaphene	ND	50	4.7	1	B8K0267	11/07/2018	11/07/18 18:12	
<i>Surrogate: Decachlorobiphenyl</i>	35.0 %		43 - 84		B8K0267	11/07/2018	11/07/18 18:12	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	32.0 %		54 - 118		B8K0267	11/07/2018	11/07/18 18:12	S10



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER2-0.5

Lab ID: 1804036-04

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.8	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:16	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.9	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 13:01	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:41	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 10:26	
Surrogate: 4-Bromofluorobenzene	75.1 %		42 - 153		B8J0773	10/30/2018	10/30/18 10:26	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.0	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:10	
ORO	8.1	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:10	
Surrogate: p-Terphenyl	65.7 %		34 - 158		B8J0859	10/31/2018	10/31/18 21:10	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 21:50	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 21:50	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 21:50	



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER2-0.5

Lab ID: 1804036-04

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 21:50	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 21:50	
alpha-Chlordane	6.6	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 21:50	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 21:50	
Chlordane	63	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 21:50	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 21:50	
Dieldrin [2C]	33	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 21:50	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 21:50	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 21:50	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 21:50	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 21:50	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 21:50	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 21:50	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 21:50	
gamma-Chlordane [2C]	3.4	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 21:50	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 21:50	
Heptachlor epoxide	3.4	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 21:50	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 21:50	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 21:50	
<i>Surrogate: Decachlorobiphenyl</i>	52.1 %		43 - 84		B8J0820	10/30/2018	10/30/18 21:50	
<i>Surrogate: Tetrachloro-m-xylene</i>	63.2 %		54 - 118		B8J0820	10/30/2018	10/30/18 21:50	



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER3-0.5

Lab ID: 1804036-07

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	5.4	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:17	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.0	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:25	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:42	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 10:45	
Surrogate: 4-Bromofluorobenzene	101 %		42 - 153		B8J0773	10/30/2018	10/30/18 10:45	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:27	
ORO	3.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 21:27	
Surrogate: p-Terphenyl	52.7 %		34 - 158		B8J0859	10/31/2018	10/31/18 21:27	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:01	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:01	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:01	



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Client Sample ID PER3-0.5

Lab ID: 1804036-07

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:01	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 22:01	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 22:01	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 22:01	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 22:01	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:01	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:01	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:01	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:01	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 22:01	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:01	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 22:01	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:01	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:01	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:01	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:01	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 22:01	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 22:01	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 22:01	
Surrogate: Decachlorobiphenyl	34.6 %		43 - 84		B8J0820	10/30/2018	10/30/18 22:01	S10
Surrogate: Tetrachloro-m-xylene	45.4 %		54 - 118		B8J0820	10/30/2018	10/30/18 22:01	S10



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID DUP-1 Lab ID: 1804036-10

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	0.63	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:19	J

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.7	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:25	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:44	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 11:04	
Surrogate: 4-Bromofluorobenzene	98.3 %		42 - 153		B8J0773	10/30/2018	10/30/18 11:04	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:18	
ORO	1.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:18	
Surrogate: p-Terphenyl	91.6 %		34 - 158		B8J0859	10/31/2018	10/31/18 20:18	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:11	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:11	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:11	



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Client Sample ID DUP-1 Lab ID: 1804036-10

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:11	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 22:11	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 22:11	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 22:11	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 22:11	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:11	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:11	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:11	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:11	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 22:11	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:11	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 22:11	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:11	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:11	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:11	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:11	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 22:11	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 22:11	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 22:11	
<i>Surrogate: Decachlorobiphenyl</i>	49.2 %		43 - 84		B8J0820	10/30/2018	10/30/18 22:11	
<i>Surrogate: Tetrachloro-m-xylene</i>	68.0 %		54 - 118		B8J0820	10/30/2018	10/30/18 22:11	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 10:41		
<i>Surrogate: Decachlorobiphenyl</i>	51.1 %		43 - 84		B8K0014	11/01/2018	11/01/18 10:41	
<i>Surrogate: Tetrachloro-m-xylene</i>	87.6 %		54 - 118		B8K0014	11/01/2018	11/01/18 10:41	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER4-0.5

Lab ID: 1804036-11

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	15	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:20	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	7.0	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:26	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:50	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 11:22	
Surrogate: 4-Bromofluorobenzene	112 %		42 - 153		B8J0773	10/30/2018	10/30/18 11:22	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4.4	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 22:52	
ORO	8.8	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 22:52	
Surrogate: p-Terphenyl	59.7 %		34 - 158		B8J0859	10/31/2018	10/31/18 22:52	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:22	
4,4'-DDE [2C]	1.6	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:22	J
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:22	



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Client Sample ID PER4-0.5

Lab ID: 1804036-11

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:22	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 22:22	
alpha-Chlordane	4.1	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 22:22	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 22:22	
Chlordane [2C]	49	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 22:22	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:22	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:22	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:22	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:22	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 22:22	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:22	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 22:22	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:22	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:22	
gamma-Chlordane	2.1	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:22	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:22	
Heptachlor epoxide [2C]	3.8	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 22:22	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 22:22	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 22:22	
<i>Surrogate: Decachlorobiphenyl</i>	46.8 %		43 - 84		B8J0820	10/30/2018	10/30/18 22:22	
<i>Surrogate: Tetrachloro-m-xylene</i>	56.6 %		54 - 118		B8J0820	10/30/2018	10/30/18 22:22	



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Project Number : LAUSD- Colfax ES, 11640.008
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Reported : 11/09/2018

Client Sample ID PER5-0.5

Lab ID: 1804036-14

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	6.6	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:21	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.2	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:29	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.07	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:52	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 11:41	
Surrogate: 4-Bromofluorobenzene	108 %		42 - 153		B8J0773	10/30/2018	10/30/18 11:41	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.0	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:10	
ORO	9.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:10	
Surrogate: p-Terphenyl	85.0 %		34 - 158		B8J0859	10/31/2018	10/31/18 23:10	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:32	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:32	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:32	



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Client Sample ID PER5-0.5

Lab ID: 1804036-14

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:32	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 22:32	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 22:32	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 22:32	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 22:32	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:32	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:32	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:32	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:32	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 22:32	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:32	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 22:32	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:32	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:32	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:32	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:32	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 22:32	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 22:32	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 22:32	
Surrogate: Decachlorobiphenyl	47.5 %		43 - 84		B8J0820	10/30/2018	10/30/18 22:32	
Surrogate: Tetrachloro-m-xylene	59.2 %		54 - 118		B8J0820	10/30/2018	10/30/18 22:32	



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER6-0.5

Lab ID: 1804036-17

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.6	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 11:22	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.7	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 13:02	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.08	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:54	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 11:59	
Surrogate: 4-Bromofluorobenzene	82.2 %		42 - 153		B8J0773	10/30/2018	10/30/18 11:59	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.7	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:18	
ORO	9.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:18	
Surrogate: p-Terphenyl	81.6 %		34 - 158		B8J0859	10/31/2018	10/31/18 17:18	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:43	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:43	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:43	



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Reported : 11/09/2018

Client Sample ID PER6-0.5

Lab ID: 1804036-17

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:43	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 22:43	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 22:43	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 22:43	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 22:43	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:43	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:43	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:43	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:43	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 22:43	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:43	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 22:43	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:43	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:43	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:43	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:43	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 22:43	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 22:43	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 22:43	
Surrogate: Decachlorobiphenyl	44.7 %		43 - 84		B8J0820	10/30/2018	10/30/18 22:43	
Surrogate: Tetrachloro-m-xylene	55.7 %		54 - 118		B8J0820	10/30/2018	10/30/18 22:43	



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Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER7-0.5

Lab ID: 1804036-20

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.6	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 15:55	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:30	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.07	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:56	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 12:18	
Surrogate: 4-Bromofluorobenzene	100 %		42 - 153		B8J0773	10/30/2018	10/30/18 12:18	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.0	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:35	
ORO	3.7	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:35	
Surrogate: p-Terphenyl	43.9 %		34 - 158		B8J0859	10/31/2018	10/31/18 17:35	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:53	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:53	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:53	



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Project Number : LAUSD- Colfax ES, 11640.008
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Reported : 11/09/2018

Client Sample ID PER7-0.5

Lab ID: 1804036-20

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:53	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 22:53	
alpha-Chlordane	0.21	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 22:53	J
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 22:53	
Chlordane [2C]	3.3	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 22:53	J
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:53	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:53	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:53	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 22:53	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 22:53	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 22:53	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 22:53	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 22:53	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 22:53	
gamma-Chlordane [2C]	0.27	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 22:53	J
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 22:53	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 22:53	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 22:53	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 22:53	
Surrogate: Decachlorobiphenyl	41.5 %		43 - 84		B8J0820	10/30/2018	10/30/18 22:53	S10
Surrogate: Tetrachloro-m-xylene	54.1 %		54 - 118		B8J0820	10/30/2018	10/30/18 22:53	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER8-0.5

Lab ID: 1804036-23

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	9.4	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 15:56	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	8.3	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:31	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.07	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 11:58	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 12:37	
Surrogate: 4-Bromofluorobenzene	88.0 %		42 - 153		B8J0773	10/30/2018	10/30/18 12:37	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	10	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:44	
ORO	27	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:44	
Surrogate: p-Terphenyl	75.0 %		34 - 158		B8J0859	10/31/2018	10/31/18 23:44	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:04	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:04	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:04	



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER8-0.5

Lab ID: 1804036-23

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:04	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 23:04	
alpha-Chlordane	4.2	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 23:04	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 23:04	
Chlordane	40	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 23:04	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:04	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:04	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:04	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:04	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 23:04	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:04	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 23:04	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:04	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:04	
gamma-Chlordane	1.9	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:04	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:04	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 23:04	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 23:04	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 23:04	
Surrogate: Decachlorobiphenyl	56.6 %		43 - 84		B8J0820	10/30/2018	10/30/18 23:04	
Surrogate: Tetrachloro-m-xylene	62.6 %		54 - 118		B8J0820	10/30/2018	10/30/18 23:04	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER9-0.5

Lab ID: 1804036-26

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	0.98	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 15:58	J

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.7	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:32	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.08	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:00	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 12:55	
Surrogate: 4-Bromofluorobenzene	105 %		42 - 153		B8J0773	10/30/2018	10/30/18 12:55	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.0	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:35	
ORO	2.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:35	
Surrogate: p-Terphenyl	77.3 %		34 - 158		B8J0859	10/31/2018	10/31/18 20:35	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:14	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:14	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:14	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER9-0.5

Lab ID: 1804036-26

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:14	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 23:14	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 23:14	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 23:14	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 23:14	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:14	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:14	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:14	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:14	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 23:14	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:14	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 23:14	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:14	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:14	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:14	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:14	
Heptachlor epoxide [2C]	0.13	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 23:14	J
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 23:14	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 23:14	
Surrogate: Decachlorobiphenyl	50.8 %		43 - 84		B8J0820	10/30/2018	10/30/18 23:14	
Surrogate: Tetrachloro-m-xylene	65.0 %		54 - 118		B8J0820	10/30/2018	10/30/18 23:14	



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Project Number : LAUSD- Colfax ES, 11640.008
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Reported : 11/09/2018

Client Sample ID PER10-0.5

Lab ID: 1804036-29

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	0.71	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 15:59	J

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.7	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:33	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:01	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 13:14	
Surrogate: 4-Bromofluorobenzene	100 %		42 - 153		B8J0773	10/30/2018	10/30/18 13:14	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.8	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:00	
ORO	3.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 17:00	
Surrogate: p-Terphenyl	89.8 %		34 - 158		B8J0859	10/31/2018	10/31/18 17:00	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:24	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:24	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:24	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER10-0.5

Lab ID: 1804036-29

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:24	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 23:24	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 23:24	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 23:24	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 23:24	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:24	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:24	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:24	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:24	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 23:24	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:24	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 23:24	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:24	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:24	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:24	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:24	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 23:24	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 23:24	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 23:24	
Surrogate: Decachlorobiphenyl	46.2 %		43 - 84		B8J0820	10/30/2018	10/30/18 23:24	
Surrogate: Tetrachloro-m-xylene	56.2 %		54 - 118		B8J0820	10/30/2018	10/30/18 23:24	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER11-0.5

Lab ID: 1804036-32

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.4	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:00	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.2	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:34	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:03	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 13:32	
Surrogate: 4-Bromofluorobenzene	109 %		42 - 153		B8J0773	10/30/2018	10/30/18 13:32	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8.3	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:27	
ORO	13	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 23:27	
Surrogate: p-Terphenyl	81.0 %		34 - 158		B8J0859	10/31/2018	10/31/18 23:27	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:35	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:35	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:35	



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Leighton Consulting, Inc.
17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER11-0.5

Lab ID: 1804036-32

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:35	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 23:35	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 23:35	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 23:35	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 23:35	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:35	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:35	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:35	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:35	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 23:35	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:35	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 23:35	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:35	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:35	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:35	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:35	
Heptachlor epoxide [2C]	0.12	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 23:35	J
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 23:35	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 23:35	
<i>Surrogate: Decachlorobiphenyl</i>	47.1 %		43 - 84		B8J0820	10/30/2018	10/30/18 23:35	
<i>Surrogate: Tetrachloro-m-xylene</i>	64.5 %		54 - 118		B8J0820	10/30/2018	10/30/18 23:35	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 10:59		
<i>Surrogate: Decachlorobiphenyl</i>	67.0 %		43 - 84		B8K0014	11/01/2018	11/01/18 10:59	
<i>Surrogate: Tetrachloro-m-xylene</i>	86.1 %		54 - 118		B8K0014	11/01/2018	11/01/18 10:59	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER12-0.5

Lab ID: 1804036-35

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	18	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:02	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	11	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:35	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.10	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:05	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 13:51	
Surrogate: 4-Bromofluorobenzene	75.1 %		42 - 153		B8J0773	10/30/2018	10/30/18 13:51	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	110	5.0	5.0	5	B8J0859	10/31/2018	11/01/18 00:54	
ORO	140	5.0	5.0	5	B8J0859	10/31/2018	11/01/18 00:54	
Surrogate: p-Terphenyl	37.9 %		34 - 158		B8J0859	10/31/2018	11/01/18 00:54	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:45	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:45	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:45	



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Reported : 11/09/2018

Client Sample ID PER12-0.5

Lab ID: 1804036-35

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:45	
alpha-BHC	1.9	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 23:45	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 23:45	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 23:45	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 23:45	
delta-BHC [2C]	0.89	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:45	J
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:45	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:45	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:45	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 23:45	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:45	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 23:45	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:45	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:45	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:45	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:45	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 23:45	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 23:45	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 23:45	
<i>Surrogate: Decachlorobiphenyl</i>	40.6 %		43 - 84		B8J0820	10/30/2018	10/30/18 23:45	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	68.5 %		54 - 118		B8J0820	10/30/2018	10/30/18 23:45	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER12-1.5

Lab ID: 1804036-36

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.2	1.0	0.04	20	B8K0091	11/02/2018	11/04/18 14:49	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID DUP-2 Lab ID: 1804036-38

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	20	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:03	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	12	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:35	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:07	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0773	10/30/2018	10/30/18 14:09	
Surrogate: 4-Bromofluorobenzene	90.2 %		42 - 153		B8J0773	10/30/2018	10/30/18 14:09	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	220	5.0	5.0	5	B8J0859	10/31/2018	11/01/18 01:11	
ORO	240	5.0	5.0	5	B8J0859	10/31/2018	11/01/18 01:11	
Surrogate: p-Terphenyl	35.1 %		34 - 158		B8J0859	10/31/2018	11/01/18 01:11	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:56	
4,4'-DDE	7.9	2.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:56	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:56	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID DUP-2 Lab ID: 1804036-38

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin [2C]	1.1	1.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:56	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/30/18 23:56	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/30/18 23:56	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/30/18 23:56	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/30/18 23:56	
delta-BHC [2C]	2.0	1.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:56	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:56	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:56	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/30/18 23:56	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/30/18 23:56	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/30/18 23:56	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/30/18 23:56	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/30/18 23:56	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/30/18 23:56	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/30/18 23:56	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/30/18 23:56	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/30/18 23:56	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/30/18 23:56	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/30/18 23:56	
<i>Surrogate: Decachlorobiphenyl</i>	46.2 %	43 - 84			B8J0820	10/30/2018	10/30/18 23:56	
<i>Surrogate: Tetrachloro-m-xylene</i>	73.6 %	54 - 118			B8J0820	10/30/2018	10/30/18 23:56	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 11:18		
<i>Surrogate: Decachlorobiphenyl</i>	56.8 %	43 - 84			B8K0014	11/01/2018	11/01/18 11:18	
<i>Surrogate: Tetrachloro-m-xylene</i>	75.3 %	54 - 118			B8K0014	11/01/2018	11/01/18 11:18	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER13-0.5

Lab ID: 1804036-39

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	13	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:04	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	10	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:36	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.04	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:13	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 19:13	
Surrogate: 4-Bromofluorobenzene	64.5 %		42 - 153		B8J0812	10/30/2018	10/30/18 19:13	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	24	1.0	1.0	1	B8J0859	10/31/2018	11/01/18 00:19	
ORO	40	1.0	1.0	1	B8J0859	10/31/2018	11/01/18 00:19	
Surrogate: p-Terphenyl	52.4 %		34 - 158		B8J0859	10/31/2018	11/01/18 00:19	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	0.35	2.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:06	J
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:06	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:06	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER13-0.5

Lab ID: 1804036-39

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:06	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/31/18 00:06	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/31/18 00:06	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/31/18 00:06	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/31/18 00:06	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:06	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:06	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:06	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:06	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/31/18 00:06	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:06	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/31/18 00:06	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:06	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:06	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:06	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:06	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/31/18 00:06	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/31/18 00:06	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/31/18 00:06	
Surrogate: Decachlorobiphenyl	36.0 %		43 - 84		B8J0820	10/30/2018	10/31/18 00:06	S10
Surrogate: Tetrachloro-m-xylene	49.7 %		54 - 118		B8J0820	10/30/2018	10/31/18 00:06	S10



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER14-0.5

Lab ID: 1804036-42

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	14	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:05	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	12	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:39	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.04	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:14	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8K0002	11/01/2018	11/01/18 10:05	
Surrogate: 4-Bromofluorobenzene	97.6 %		42 - 153		B8K0002	11/01/2018	11/01/18 10:05	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	13	1.0	1.0	1	B8J0859	10/31/2018	11/01/18 00:01	
ORO	23	1.0	1.0	1	B8J0859	10/31/2018	11/01/18 00:01	
Surrogate: p-Terphenyl	55.8 %		34 - 158		B8J0859	10/31/2018	11/01/18 00:01	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:17	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:17	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:17	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER14-0.5

Lab ID: 1804036-42

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:17	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/31/18 00:17	
alpha-Chlordane	0.79	1.0	0.12	1	B8J0820	10/30/2018	10/31/18 00:17	J
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/31/18 00:17	
Chlordane [2C]	8.8	8.5	1.1	1	B8J0820	10/30/2018	10/31/18 00:17	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:17	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:17	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:17	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:17	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/31/18 00:17	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:17	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/31/18 00:17	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:17	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:17	
gamma-Chlordane	0.87	1.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:17	J
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:17	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/31/18 00:17	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/31/18 00:17	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/31/18 00:17	
<i>Surrogate: Decachlorobiphenyl</i>	49.8 %		43 - 84		B8J0820	10/30/2018	10/31/18 00:17	
<i>Surrogate: Tetrachloro-m-xylene</i>	62.8 %		54 - 118		B8J0820	10/30/2018	10/31/18 00:17	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER14-1.5

Lab ID: 1804036-43

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	13	1.0	0.04	20	B8K0091	11/02/2018	11/04/18 14:52	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER14-3.0

Lab ID: 1804036-44

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	9.9	1.0	0.04	20	B8K0289	11/08/2018	11/08/18 14:57	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER15-0.5

Lab ID: 1804036-45

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	67	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:06	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.1	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:40	D1

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.7	1.0		20	B8K0286	11/08/2018	11/08/18 15:07	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.07	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:16	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 19:32	
Surrogate: 4-Bromofluorobenzene	96.2 %		42 - 153		B8J0812	10/30/2018	10/30/18 19:32	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	120	10	10	10	B8J0859	10/31/2018	11/01/18 00:36	
ORO	260	10	10	10	B8J0859	10/31/2018	11/01/18 00:36	
Surrogate: p-Terphenyl	0%		34 - 158		B8J0859	10/31/2018	11/01/18 00:36	S4



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER15-0.5

Lab ID: 1804036-45

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:27	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:27	
4,4'-DDT	10	2.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:27	
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:27	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/31/18 00:27	
alpha-Chlordane	6.5	1.0	0.12	1	B8J0820	10/30/2018	10/31/18 00:27	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/31/18 00:27	
Chlordane	72	8.5	1.1	1	B8J0820	10/30/2018	10/31/18 00:27	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:27	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:27	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:27	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:27	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/31/18 00:27	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:27	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/31/18 00:27	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:27	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:27	
gamma-Chlordane [2C]	5.8	1.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:27	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:27	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/31/18 00:27	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/31/18 00:27	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/31/18 00:27	
<i>Surrogate: Decachlorobiphenyl</i>	<i>93.0 %</i>		<i>43 - 84</i>		B8J0820	10/30/2018	<i>10/31/18 00:27</i>	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>62.3 %</i>		<i>54 - 118</i>		B8J0820	10/30/2018	<i>10/31/18 00:27</i>	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER16-0.5

Lab ID: 1804036-48

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	7.3	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:13	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.3	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:40	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:18	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 19:50	
Surrogate: 4-Bromofluorobenzene	78.4 %		42 - 153		B8J0812	10/30/2018	10/30/18 19:50	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.6	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:52	
ORO	12	1.0	1.0	1	B8J0859	10/31/2018	10/31/18 20:52	
Surrogate: p-Terphenyl	79.9 %		34 - 158		B8J0859	10/31/2018	10/31/18 20:52	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:37	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:37	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:37	



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Client Sample ID PER16-0.5

Lab ID: 1804036-48

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:37	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/31/18 00:37	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/31/18 00:37	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/31/18 00:37	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/31/18 00:37	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:37	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:37	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:37	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:37	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/31/18 00:37	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:37	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/31/18 00:37	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:37	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:37	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:37	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:37	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/31/18 00:37	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/31/18 00:37	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/31/18 00:37	
Surrogate: Decachlorobiphenyl	50.9 %		43 - 84		B8J0820	10/30/2018	10/31/18 00:37	
Surrogate: Tetrachloro-m-xylene	69.6 %		54 - 118		B8J0820	10/30/2018	10/31/18 00:37	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER17-0.5

Lab ID: 1804036-51

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.0	1.0	0.18	1	B8J0805	10/30/2018	10/31/18 16:14	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.9	1.0	0.04	20	B8K0006	10/31/2018	11/01/18 12:41	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.02	0.10	0.006	1	B8J0808	10/30/2018	11/01/18 12:20	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 20:09	
Surrogate: 4-Bromofluorobenzene	88.8 %		42 - 153		B8J0812	10/30/2018	10/30/18 20:09	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9.1	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:08	
ORO	24	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:08	
Surrogate: p-Terphenyl	77.9 %		34 - 158		B8J0879	10/31/2018	11/01/18 05:08	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:48	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:48	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:48	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER17-0.5

Lab ID: 1804036-51

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:48	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/31/18 00:48	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/31/18 00:48	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/31/18 00:48	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/31/18 00:48	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:48	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:48	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:48	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:48	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/31/18 00:48	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:48	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/31/18 00:48	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:48	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:48	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:48	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:48	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/31/18 00:48	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/31/18 00:48	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/31/18 00:48	
Surrogate: Decachlorobiphenyl [2C]	57.0 %		43 - 84		B8J0820	10/30/2018	10/31/18 00:48	
Surrogate: Tetrachloro-m-xylene	58.6 %		54 - 118		B8J0820	10/30/2018	10/31/18 00:48	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER18-0.5

Lab ID: 1804036-54

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.6	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:45	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.0	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:44	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:26	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8K0002	11/01/2018	11/01/18 09:47	
Surrogate: 4-Bromofluorobenzene	104 %		42 - 153		B8K0002	11/01/2018	11/01/18 09:47	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8.9	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 04:50	
ORO	12	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 04:50	
Surrogate: p-Terphenyl	48.1 %		34 - 158		B8J0879	10/31/2018	11/01/18 04:50	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:58	
4,4'-DDE	ND	2.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:58	
4,4'-DDT	ND	2.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:58	



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER18-0.5

Lab ID: 1804036-54

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:58	
alpha-BHC	ND	1.0	0.11	1	B8J0820	10/30/2018	10/31/18 00:58	
alpha-Chlordane	ND	1.0	0.12	1	B8J0820	10/30/2018	10/31/18 00:58	
beta-BHC	ND	1.0	0.06	1	B8J0820	10/30/2018	10/31/18 00:58	
Chlordane	ND	8.5	1.1	1	B8J0820	10/30/2018	10/31/18 00:58	
delta-BHC	ND	1.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:58	
Dieldrin	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:58	
Endosulfan I	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:58	
Endosulfan II	ND	2.0	0.03	1	B8J0820	10/30/2018	10/31/18 00:58	
Endosulfan sulfate	ND	2.0	0.08	1	B8J0820	10/30/2018	10/31/18 00:58	
Endrin	ND	2.0	0.04	1	B8J0820	10/30/2018	10/31/18 00:58	
Endrin aldehyde	ND	2.0	0.31	1	B8J0820	10/30/2018	10/31/18 00:58	
Endrin ketone	ND	2.0	0.13	1	B8J0820	10/30/2018	10/31/18 00:58	
gamma-BHC	ND	1.0	0.10	1	B8J0820	10/30/2018	10/31/18 00:58	
gamma-Chlordane	ND	1.0	0.07	1	B8J0820	10/30/2018	10/31/18 00:58	
Heptachlor	ND	1.0	0.05	1	B8J0820	10/30/2018	10/31/18 00:58	
Heptachlor epoxide	ND	1.0	0.09	1	B8J0820	10/30/2018	10/31/18 00:58	
Methoxychlor	ND	5.0	0.18	1	B8J0820	10/30/2018	10/31/18 00:58	
Toxaphene	ND	50	4.7	1	B8J0820	10/30/2018	10/31/18 00:58	
Surrogate: Decachlorobiphenyl	82.0 %		43 - 84		B8J0820	10/30/2018	10/31/18 00:58	
Surrogate: Tetrachloro-m-xylene	79.6 %		54 - 118		B8J0820	10/30/2018	10/31/18 00:58	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER19-0.5

Lab ID: 1804036-57

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.8	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:50	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:49	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:39	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 20:46	
Surrogate: 4-Bromofluorobenzene	112 %		42 - 153		B8J0812	10/30/2018	10/30/18 20:46	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	5.6	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 04:16	
ORO	7.8	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 04:16	
Surrogate: p-Terphenyl	55.8 %		34 - 158		B8J0879	10/31/2018	11/01/18 04:16	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 15:34	
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 15:34	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 15:34	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER19-0.5

Lab ID: 1804036-57

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 15:34	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 15:34	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 15:34	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 15:34	
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 15:34	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 15:34	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 15:34	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 15:34	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 15:34	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 15:34	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 15:34	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 15:34	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 15:34	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 15:34	
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 15:34	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 15:34	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 15:34	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 15:34	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 15:34	
<i>Surrogate: Decachlorobiphenyl</i>	67.9 %		43 - 84		B8K0014	11/01/2018	11/01/18 15:34	
<i>Surrogate: Tetrachloro-m-xylene</i>	59.3 %		54 - 118		B8K0014	11/01/2018	11/01/18 15:34	



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER20-0.5

Lab ID: 1804036-60

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	7.8	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:51	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.0	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:50	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.03	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:41	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 21:04	
Surrogate: 4-Bromofluorobenzene	112 %		42 - 153		B8J0812	10/30/2018	10/30/18 21:04	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.4	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:00	
ORO	10	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:00	
Surrogate: p-Terphenyl	74.5 %		34 - 158		B8J0879	10/31/2018	11/01/18 06:00	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.13	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 10:50	J
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 10:50	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 10:50	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER20-0.5

Lab ID: 1804036-60

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 10:50	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 10:50	
alpha-Chlordane [2C]	0.12	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 10:50	J
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 10:50	
Chlordane	1.4	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 10:50	J
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 10:50	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 10:50	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 10:50	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 10:50	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 10:50	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 10:50	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 10:50	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 10:50	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 10:50	
gamma-Chlordane	0.09	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 10:50	J
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 10:50	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 10:50	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 10:50	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 10:50	
Surrogate: Decachlorobiphenyl	51.2 %		43 - 84		B8K0014	11/01/2018	11/01/18 10:50	
Surrogate: Tetrachloro-m-xylene	56.2 %		54 - 118		B8K0014	11/01/2018	11/01/18 10:50	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER21-0.5

Lab ID: 1804036-63

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.6	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:52	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.3	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:50	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:43	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 21:23	
Surrogate: 4-Bromofluorobenzene	116 %		42 - 153		B8J0812	10/30/2018	10/30/18 21:23	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	11	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:42	
ORO	18	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:42	
Surrogate: p-Terphenyl	67.0 %		34 - 158		B8J0879	10/31/2018	11/01/18 05:42	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.15	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:01	J
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:01	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:01	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER21-0.5

Lab ID: 1804036-63

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:01	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 11:01	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 11:01	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 11:01	
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 11:01	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:01	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:01	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:01	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:01	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 11:01	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:01	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 11:01	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:01	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:01	
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:01	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:01	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 11:01	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 11:01	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 11:01	
<i>Surrogate: Decachlorobiphenyl</i>	42.5 %	<i>43 - 84</i>			B8K0014	11/01/2018	<i>11/01/18 11:01</i>	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	56.8 %	<i>54 - 118</i>			B8K0014	11/01/2018	<i>11/01/18 11:01</i>	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 11:37		
<i>Surrogate: Decachlorobiphenyl</i>	55.4 %	<i>43 - 84</i>			B8K0014	11/01/2018	<i>11/01/18 11:37</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	71.8 %	<i>54 - 118</i>			B8K0014	11/01/2018	<i>11/01/18 11:37</i>	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID DUP-3

Lab ID: 1804036-66

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	34	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:53	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.8	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:51	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:45	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 21:41	
Surrogate: 4-Bromofluorobenzene	92.7 %		42 - 153		B8J0812	10/30/2018	10/30/18 21:41	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	500	10	10	10	B8J0879	10/31/2018	11/01/18 07:44	
ORO	830	10	10	10	B8J0879	10/31/2018	11/01/18 07:44	
Surrogate: p-Terphenyl	147 %		34 - 158		B8J0879	10/31/2018	11/01/18 07:44	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:11	
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:11	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:11	



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Client Sample ID DUP-3

Lab ID: 1804036-66

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:11	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 11:11	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 11:11	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 11:11	
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 11:11	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:11	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:11	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:11	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:11	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 11:11	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:11	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 11:11	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:11	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:11	
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:11	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:11	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 11:11	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 11:11	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 11:11	
<i>Surrogate: Decachlorobiphenyl [2C]</i>	83.6 %		43 - 84		B8K0014	11/01/2018	11/01/18 11:11	
<i>Surrogate: Tetrachloro-m-xylene</i>	70.4 %		54 - 118		B8K0014	11/01/2018	11/01/18 11:11	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 11:56		
<i>Surrogate: Decachlorobiphenyl</i>	53.1 %		43 - 84		B8K0014	11/01/2018	11/01/18 11:56	
<i>Surrogate: Tetrachloro-m-xylene</i>	77.6 %		54 - 118		B8K0014	11/01/2018	11/01/18 11:56	



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER22-0.5

Lab ID: 1804036-67

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	8.2	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:57	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.8	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:52	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:47	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 22:00	
Surrogate: 4-Bromofluorobenzene	110 %		42 - 153		B8J0812	10/30/2018	10/30/18 22:00	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	74	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:52	
ORO	110	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:52	
Surrogate: p-Terphenyl	48.2 %		34 - 158		B8J0879	10/31/2018	11/01/18 06:52	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:22	
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:22	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:22	



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER22-0.5

Lab ID: 1804036-67

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:22	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 11:22	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 11:22	
beta-BHC	0.70	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 11:22	J
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 11:22	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:22	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:22	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:22	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:22	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 11:22	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:22	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 11:22	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:22	
gamma-BHC [2C]	0.37	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:22	J
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:22	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:22	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 11:22	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 11:22	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 11:22	
<i>Surrogate: Decachlorobiphenyl</i>	66.7 %	43 - 84			B8K0014	11/01/2018	11/01/18 11:22	
<i>Surrogate: Tetrachloro-m-xylene</i>	79.4 %	54 - 118			B8K0014	11/01/2018	11/01/18 11:22	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 12:15		
<i>Surrogate: Decachlorobiphenyl</i>	54.6 %	43 - 84			B8K0014	11/01/2018	11/01/18 12:15	
<i>Surrogate: Tetrachloro-m-xylene</i>	110 %	54 - 118			B8K0014	11/01/2018	11/01/18 12:15	



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER22-1.5

Lab ID: 1804036-68

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7.8	1.0	1.0	1	B8K0152	11/05/2018	11/06/18 12:27	
ORO	10	1.0	1.0	1	B8K0152	11/05/2018	11/06/18 12:27	
Surrogate: <i>p</i> -Terphenyl	72.1 %		34 - 158		B8K0152	11/05/2018	11/06/18 12:27	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER23-0.5

Lab ID: 1804036-70

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	3.0	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:58	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.2	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:53	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.04	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:48	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 22:18	
Surrogate: 4-Bromofluorobenzene	115 %		42 - 153		B8J0812	10/30/2018	10/30/18 22:18	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	13	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:25	
ORO	22	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 05:25	
Surrogate: p-Terphenyl	63.0 %		34 - 158		B8J0879	10/31/2018	11/01/18 05:25	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:32	
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:32	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:32	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER23-0.5

Lab ID: 1804036-70

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:32	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 11:32	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 11:32	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 11:32	
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 11:32	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:32	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:32	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:32	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:32	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 11:32	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:32	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 11:32	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:32	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:32	
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:32	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:32	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 11:32	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 11:32	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 11:32	
Surrogate: Decachlorobiphenyl	85.7 %		43 - 84		B8K0014	11/01/2018	11/01/18 11:32	S10
Surrogate: Tetrachloro-m-xylene	64.9 %		54 - 118		B8K0014	11/01/2018	11/01/18 11:32	



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER24-0.5

Lab ID: 1804036-73

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	64	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 10:59	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:54	D1

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	8.3	1.0		20	B8K0286	11/08/2018	11/08/18 15:11	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:50	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 22:37	
Surrogate: 4-Bromofluorobenzene	86.1 %		42 - 153		B8J0812	10/30/2018	10/30/18 22:37	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	43	5.0	5.0	5	B8J0879	10/31/2018	11/01/18 08:02	
ORO	100	5.0	5.0	5	B8J0879	10/31/2018	11/01/18 08:02	
Surrogate: p-Terphenyl	38.2 %		34 - 158		B8J0879	10/31/2018	11/01/18 08:02	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER24-0.5

Lab ID: 1804036-73

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:43	
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:43	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:43	
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:43	
alpha-BHC	1.7	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 11:43	
alpha-Chlordane	2.7	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 11:43	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 11:43	
Chlordane [2C]	27	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 11:43	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:43	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:43	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:43	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:43	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 11:43	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:43	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 11:43	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:43	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:43	
gamma-Chlordane	2.4	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:43	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:43	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 11:43	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 11:43	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 11:43	
<i>Surrogate: Decachlorobiphenyl</i>	<i>43.9 %</i>		<i>43 - 84</i>		B8K0014	11/01/2018	<i>11/01/18 11:43</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>74.3 %</i>		<i>54 - 118</i>		B8K0014	11/01/2018	<i>11/01/18 11:43</i>	



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Client Sample ID PER24-0.5

Lab ID: 1804036-73

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 12:33	
<i>Surrogate: Decachlorobiphenyl</i>	53.4 %	43 - 84		B8K0014	11/01/2018	11/01/18 12:33	
<i>Surrogate: Tetrachloro-m-xylene</i>	80.7 %	54 - 118		B8K0014	11/01/2018	11/01/18 12:33	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER25-0.5

Lab ID: 1804036-76

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	37	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:01	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.6	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:55	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:52	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 22:56	
Surrogate: 4-Bromofluorobenzene	111 %		42 - 153		B8J0812	10/30/2018	10/30/18 22:56	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	8.7	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 07:27	
ORO	20	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 07:27	
Surrogate: p-Terphenyl	62.2 %		34 - 158		B8J0879	10/31/2018	11/01/18 07:27	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:53	
4,4'-DDE [2C]	1.8	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:53	J
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:53	



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Client Sample ID PER25-0.5

Lab ID: 1804036-76

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:53	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 11:53	
alpha-Chlordane	0.85	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 11:53	J
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 11:53	
Chlordane [2C]	8.8	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 11:53	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:53	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:53	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:53	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 11:53	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 11:53	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 11:53	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 11:53	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 11:53	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 11:53	
gamma-Chlordane	0.69	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 11:53	J
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 11:53	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 11:53	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 11:53	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 11:53	
<i>Surrogate: Decachlorobiphenyl</i>	44.4 %	43 - 84			B8K0014	11/01/2018	11/01/18 11:53	
<i>Surrogate: Tetrachloro-m-xylene</i>	62.2 %	54 - 118			B8K0014	11/01/2018	11/01/18 11:53	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 12:52		
<i>Surrogate: Decachlorobiphenyl</i>	56.5 %	43 - 84			B8K0014	11/01/2018	11/01/18 12:52	
<i>Surrogate: Tetrachloro-m-xylene</i>	81.2 %	54 - 118			B8K0014	11/01/2018	11/01/18 12:52	



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER26-0.5

Lab ID: 1804036-79

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.9	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:02	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.4	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:55	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.04	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 12:58	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 23:14	
Surrogate: 4-Bromofluorobenzene	114 %		42 - 153		B8J0812	10/30/2018	10/30/18 23:14	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9.6	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 07:09	
ORO	19	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 07:09	
Surrogate: p-Terphenyl	71.7 %		34 - 158		B8J0879	10/31/2018	11/01/18 07:09	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 12:04	
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 12:04	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:04	



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Client Sample ID PER26-0.5

Lab ID: 1804036-79

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 12:04	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 12:04	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 12:04	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 12:04	
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 12:04	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 12:04	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 12:04	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:04	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 12:04	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 12:04	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 12:04	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 12:04	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 12:04	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:04	
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 12:04	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 12:04	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 12:04	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 12:04	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 12:04	
Surrogate: Decachlorobiphenyl	37.2 %		43 - 84		B8K0014	11/01/2018	11/01/18 12:04	S10
Surrogate: Tetrachloro-m-xylene	51.3 %		54 - 118		B8K0014	11/01/2018	11/01/18 12:04	S10



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
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Reported : 11/09/2018

Client Sample ID PER27-0.5

Lab ID: 1804036-82

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.3	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:03	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	7.1	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:56	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.05	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 13:00	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 23:33	
Surrogate: 4-Bromofluorobenzene	105 %		42 - 153		B8J0812	10/30/2018	10/30/18 23:33	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4.8	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:17	
ORO	7.3	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:17	
Surrogate: p-Terphenyl	68.3 %		34 - 158		B8J0879	10/31/2018	11/01/18 06:17	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 12:14	
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 12:14	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:14	



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Client Sample ID PER27-0.5

Lab ID: 1804036-82

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 12:14	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 12:14	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 12:14	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 12:14	
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 12:14	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 12:14	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 12:14	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:14	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 12:14	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 12:14	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 12:14	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 12:14	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 12:14	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:14	
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 12:14	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 12:14	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 12:14	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 12:14	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 12:14	
<i>Surrogate: Decachlorobiphenyl</i>	48.2 %	43 - 84			B8K0014	11/01/2018	11/01/18 12:14	
<i>Surrogate: Tetrachloro-m-xylene</i>	49.3 %	54 - 118			B8K0014	11/01/2018	11/01/18 12:14	S10

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 13:11		
<i>Surrogate: Decachlorobiphenyl</i>	54.0 %	43 - 84			B8K0014	11/01/2018	11/01/18 13:11	
<i>Surrogate: Tetrachloro-m-xylene</i>	76.4 %	54 - 118			B8K0014	11/01/2018	11/01/18 13:11	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER28-0.5

Lab ID: 1804036-85

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	1.5	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:04	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	7.5	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 12:59	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 13:02	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/30/18 23:51	
Surrogate: 4-Bromofluorobenzene	109 %		42 - 153		B8J0812	10/30/2018	10/30/18 23:51	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1.2	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 03:59	
ORO	3.1	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 03:59	
Surrogate: p-Terphenyl	73.1 %		34 - 158		B8J0879	10/31/2018	11/01/18 03:59	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.10	2.0	0.07	1	B8K0014	11/01/2018	11/01/18 12:25	J
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/01/18 12:25	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:25	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
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Client Sample ID PER28-0.5

Lab ID: 1804036-85

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/01/18 12:25	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/01/18 12:25	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/01/18 12:25	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/01/18 12:25	
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/01/18 12:25	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/01/18 12:25	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 12:25	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:25	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/01/18 12:25	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/01/18 12:25	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/01/18 12:25	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/01/18 12:25	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/01/18 12:25	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/01/18 12:25	
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/01/18 12:25	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/01/18 12:25	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/01/18 12:25	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/01/18 12:25	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/01/18 12:25	
<i>Surrogate: Decachlorobiphenyl</i>	32.4 %	43 - 84			B8K0014	11/01/2018	11/01/18 12:25	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	47.4 %	54 - 118			B8K0014	11/01/2018	11/01/18 12:25	S10

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
Aroclor 1221	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
Aroclor 1232	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
Aroclor 1242	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
Aroclor 1248	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
Aroclor 1254	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
Aroclor 1260	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
Aroclor 1262	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
Aroclor 1268	ND	16	1	B8K0014	11/01/2018	11/01/18 13:47		
<i>Surrogate: Decachlorobiphenyl</i>	59.9 %	43 - 84			B8K0014	11/01/2018	11/01/18 13:47	
<i>Surrogate: Tetrachloro-m-xylene</i>	68.2 %	54 - 118			B8K0014	11/01/2018	11/01/18 13:47	



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID PER29-0.5

Lab ID: 1804036-88

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.1	1.0	0.18	1	B8J0806	10/30/2018	10/31/18 11:05	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.6	1.0	0.04	20	B8K0007	10/31/2018	11/01/18 13:00	D1

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	0.06	0.10	0.006	1	B8J0809	10/30/2018	11/01/18 13:04	J

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	0.20	1	B8J0812	10/30/2018	10/31/18 00:10	
Surrogate: 4-Bromofluorobenzene	94.8 %		42 - 153		B8J0812	10/30/2018	10/31/18 00:10	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.8	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:34	
ORO	6.5	1.0	1.0	1	B8J0879	10/31/2018	11/01/18 06:34	
Surrogate: p-Terphenyl	91.6 %		34 - 158		B8J0879	10/31/2018	11/01/18 06:34	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0014	11/01/2018	11/02/18 11:29	
4,4'-DDE	ND	2.0	0.05	1	B8K0014	11/01/2018	11/02/18 11:29	
4,4'-DDT	ND	2.0	0.10	1	B8K0014	11/01/2018	11/02/18 11:29	



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER29-0.5

Lab ID: 1804036-88

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	1.0	0.04	1	B8K0014	11/01/2018	11/02/18 11:29	
alpha-BHC	ND	1.0	0.11	1	B8K0014	11/01/2018	11/02/18 11:29	
alpha-Chlordane	ND	1.0	0.12	1	B8K0014	11/01/2018	11/02/18 11:29	
beta-BHC	ND	1.0	0.06	1	B8K0014	11/01/2018	11/02/18 11:29	
Chlordane	ND	8.5	1.1	1	B8K0014	11/01/2018	11/02/18 11:29	
delta-BHC	ND	1.0	0.03	1	B8K0014	11/01/2018	11/02/18 11:29	
Dieldrin	ND	2.0	0.13	1	B8K0014	11/01/2018	11/02/18 11:29	
Endosulfan I	ND	1.0	0.10	1	B8K0014	11/01/2018	11/02/18 11:29	
Endosulfan II	ND	2.0	0.03	1	B8K0014	11/01/2018	11/02/18 11:29	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0014	11/01/2018	11/02/18 11:29	
Endrin	ND	2.0	0.04	1	B8K0014	11/01/2018	11/02/18 11:29	
Endrin aldehyde	ND	2.0	0.31	1	B8K0014	11/01/2018	11/02/18 11:29	
Endrin ketone	ND	2.0	0.13	1	B8K0014	11/01/2018	11/02/18 11:29	
gamma-BHC	ND	1.0	0.10	1	B8K0014	11/01/2018	11/02/18 11:29	
gamma-Chlordane	ND	1.0	0.07	1	B8K0014	11/01/2018	11/02/18 11:29	
Heptachlor	ND	1.0	0.05	1	B8K0014	11/01/2018	11/02/18 11:29	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0014	11/01/2018	11/02/18 11:29	
Methoxychlor	ND	5.0	0.18	1	B8K0014	11/01/2018	11/02/18 11:29	
Toxaphene	ND	50	4.7	1	B8K0014	11/01/2018	11/02/18 11:29	
<i>Surrogate: Decachlorobiphenyl</i>	55.3 %		43 - 84		B8K0014	11/01/2018	11/02/18 11:29	
<i>Surrogate: Tetrachloro-m-xylene</i>	42.2 %		54 - 118		B8K0014	11/01/2018	11/02/18 11:29	S10



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Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Client Sample ID EB-1 Lab ID: 1804036-91

Total Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.0050	0.0047	1	B8K0013	11/01/2018	11/01/18 16:18	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.39	1	B8J0802	10/30/2018	10/30/18 15:03	

Mercury by AA (Cold Vapor) EPA 7470A

Analyst: KEK

Analyte	Result (ug/L)	PQL (ug/L)	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20		1	B8K0015	11/01/2018	11/01/18 16:41	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.20	0.05	1	B8J0827	10/31/2018	10/31/18 12:21	
Surrogate: 4-Bromofluorobenzene	106 %		70 - 130		B8J0827	10/31/2018	10/31/18 12:21	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	0.12	0.05	0.05	1	B8K0020	11/01/2018	11/01/18 12:30	
ORO	0.11	0.05	0.05	1	B8K0020	11/01/2018	11/01/18 12:30	
Surrogate: p-Terphenyl	94.2 %		32 - 169		B8K0020	11/01/2018	11/01/18 12:30	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	0.05	0.006	1	B8K0028	11/01/2018	11/02/18 11:19	
4,4'-DDE	ND	0.05	0.005	1	B8K0028	11/01/2018	11/02/18 11:19	
4,4'-DDT	ND	0.05	0.01	1	B8K0028	11/01/2018	11/02/18 11:19	



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Client Sample ID EB-1 Lab ID: 1804036-91

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	0.02	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
alpha-BHC	ND	0.02	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
alpha-Chlordane	ND	0.02	0.003	1	B8K0028	11/01/2018	11/02/18 11:19	
beta-BHC	ND	0.02	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
Chlordane	ND	0.25	0.03	1	B8K0028	11/01/2018	11/02/18 11:19	
delta-BHC	ND	0.02	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
Dieldrin	ND	0.05	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
Endosulfan I	ND	0.02	0.005	1	B8K0028	11/01/2018	11/02/18 11:19	
Endosulfan II	ND	0.05	0.009	1	B8K0028	11/01/2018	11/02/18 11:19	
Endosulfan sulfate	ND	0.05	0.01	1	B8K0028	11/01/2018	11/02/18 11:19	
Endrin	ND	0.05	0.005	1	B8K0028	11/01/2018	11/02/18 11:19	
Endrin aldehyde	ND	0.05	0.003	1	B8K0028	11/01/2018	11/02/18 11:19	
Endrin ketone	ND	0.05	0.003	1	B8K0028	11/01/2018	11/02/18 11:19	
gamma-BHC	ND	0.02	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
gamma-Chlordane	ND	0.02	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
Heptachlor	ND	0.02	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
Heptachlor epoxide	ND	0.02	0.002	1	B8K0028	11/01/2018	11/02/18 11:19	
Methoxychlor	ND	0.25	0.008	1	B8K0028	11/01/2018	11/02/18 11:19	
Toxaphene	ND	2.5	0.23	1	B8K0028	11/01/2018	11/02/18 11:19	
<i>Surrogate: Decachlorobiphenyl</i>	74.2 %		8 - 128		B8K0028	11/01/2018	11/02/18 11:19	
<i>Surrogate: Tetrachloro-m-xylene</i>	71.6 %		32 - 126		B8K0028	11/01/2018	11/02/18 11:19	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	0.50	1	B8K0028	11/01/2018	11/01/18 16:56		
Aroclor 1221	ND	1.0	1	B8K0028	11/01/2018	11/01/18 16:56		
Aroclor 1232	ND	0.50	1	B8K0028	11/01/2018	11/01/18 16:56		
Aroclor 1242	ND	0.50	1	B8K0028	11/01/2018	11/01/18 16:56		
Aroclor 1248	ND	0.50	1	B8K0028	11/01/2018	11/01/18 16:56		
Aroclor 1254	ND	0.50	1	B8K0028	11/01/2018	11/01/18 16:56		
Aroclor 1260	ND	0.50	1	B8K0028	11/01/2018	11/01/18 16:56		
Aroclor 1262	ND	0.50	1	B8K0028	11/01/2018	11/01/18 16:56		
Aroclor 1268	ND	0.50	1	B8K0028	11/01/2018	11/01/18 16:56		
<i>Surrogate: Decachlorobiphenyl</i>	66.6 %		8 - 128		B8K0028	11/01/2018	11/01/18 16:56	
<i>Surrogate: Tetrachloro-m-xylene</i>	95.6 %		32 - 126		B8K0028	11/01/2018	11/01/18 16:56	



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QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0805 - EPA 3050B_S

Blank (B8J0805-BLK1) Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 0.244706 1.0 0.18 J

LCS (B8J0805-BS1) Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 41.9957 1.0 0.18 50.0000 84.0 80 - 120

Duplicate (B8J0805-DUP1) Source: 1804036-01 Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 4.34105 1.0 0.18 4.02274 7.61 20

Matrix Spike (B8J0805-MS1) Source: 1804036-01 Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 88.0306 1.0 0.18 125.000 4.02274 67.2 30 - 113

Matrix Spike Dup (B8J0805-MSD1) Source: 1804036-01 Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 86.3448 1.0 0.18 125.628 4.02274 65.5 30 - 113 1.93 20



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Reported : 11/09/2018

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0806 - EPA 3050B_S

Blank (B8J0806-BLK1) Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead ND 1.0 0.18

LCS (B8J0806-BS1) Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 40.9539 1.0 0.18 50.0000 81.9 80 - 120

Duplicate (B8J0806-DUP1) Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 4.24292 1.0 0.18 3.61932 15.9 20

Matrix Spike (B8J0806-MS1) Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 90.2903 1.0 0.18 124.378 3.61932 69.7 30 - 113

Matrix Spike Dup (B8J0806-MSD1) Prepared: 10/30/2018 Analyzed: 10/31/2018

Lead 91.6942 1.0 0.18 125.000 3.61932 70.5 30 - 113 1.54 20



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Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0013 - EPA 3010A_W

Blank (B8K0013-BLK1) Prepared: 11/1/2018 Analyzed: 11/1/2018

Lead	ND	0.0050	0.0047
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LCS (B8K0013-BS1) Prepared: 11/1/2018 Analyzed: 11/1/2018

Lead	0.857613	0.0050	0.0047	1.00000	85.8	80 - 120
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Duplicate (B8K0013-DUP1) Prepared: 11/1/2018 Analyzed: 11/1/2018

Lead	ND	0.0050	0.0047	ND	NR	20
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Matrix Spike (B8K0013-MS1) Prepared: 11/1/2018 Analyzed: 11/1/2018

Lead	2.15433	0.0050	0.0047	2.50000	ND	86.2	59 - 123
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Matrix Spike Dup (B8K0013-MSD1) Prepared: 11/1/2018 Analyzed: 11/1/2018

Lead	2.22662	0.0050	0.0047	2.50000	ND	89.1	59 - 123	3.30	20
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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0802 - EPA 3010A MS_W

Blank (B8J0802-BLK1)

Prepared: 10/30/2018 Analyzed: 10/30/2018

Arsenic ND 1.0 0.39

LCS (B8J0802-BS1)

Prepared: 10/30/2018 Analyzed: 10/30/2018

Arsenic 9.68134 1.0 0.39 10.0000 96.8 85 - 115

Matrix Spike (B8J0802-MS1)

Source: 1804036-91 Prepared: 10/30/2018 Analyzed: 10/30/2018

Arsenic 17.9901 1.0 0.39 20.0000 ND 90.0 75 - 125

Matrix Spike Dup (B8J0802-MSD1)

Source: 1804036-91 Prepared: 10/30/2018 Analyzed: 10/30/2018

Arsenic 18.1168 1.0 0.39 20.0000 ND 90.6 75 - 125 0.702 20

Post Spike (B8J0802-PS1)

Source: 1804036-91 Prepared: 10/30/2018 Analyzed: 10/30/2018

Arsenic 5.03574 5.00000 0.348270 93.7 75 - 125



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0006 - EPA 3050B MS_S

Blank (B8K0006-BLK1)

Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic ND 0.25 0.01

LCS (B8K0006-BS1)

Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic 3.89037 0.25 0.01 5.00000 77.8 70 - 130

Matrix Spike (B8K0006-MS1)

Source: 1804036-01 Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic 6.24290 1.0 0.04 5.00000 2.01864 84.5 75 - 125

Matrix Spike Dup (B8K0006-MSD1)

Source: 1804036-01 Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic 6.51565 1.0 0.04 5.00000 2.01864 89.9 75 - 125 4.28 20



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B8K0006 - EPA 3050B MS_S

Post Spike (B8K0006-PS1) **Source: 1804036-01** Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic 5.30419 5.00000 1.00932 85.9 75 - 125



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0007 - EPA 3050B MS_S

Blank (B8K0007-BLK1) Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic	0.016989	0.25	0.01							J
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LCS (B8K0007-BS1) Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic	4.05139	0.25	0.01	5.00000		81.0	70 - 130			
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Matrix Spike (B8K0007-MS1) Source: 1804036-54 Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic	6.12125	1.0	0.04	5.00000	1.99405	82.5	75 - 125			
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Matrix Spike Dup (B8K0007-MSD1) Source: 1804036-54 Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic	7.00670	1.0	0.04	5.00000	1.99405	100	75 - 125	13.5	20	
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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B8K0007 - EPA 3050B MS_S

Post Spike (B8K0007-PS1) **Source: 1804036-54** Prepared: 10/31/2018 Analyzed: 11/1/2018

Arsenic 5.31580 5.00000 0.997027 86.4 75 - 125



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0091 - EPA 3050B MS_S

Blank (B8K0091-BLK1)

Prepared: 11/2/2018 Analyzed: 11/4/2018

Arsenic ND 0.25 0.01

LCS (B8K0091-BS1)

Prepared: 11/2/2018 Analyzed: 11/4/2018

Arsenic 3.82380 0.25 0.01 5.00000 76.5 70 - 130

Matrix Spike (B8K0091-MS1)

Source: 1804036-36 Prepared: 11/2/2018 Analyzed: 11/4/2018

Arsenic 9.22514 1.0 0.04 5.00000 2.22455 140 75 - 125 M1

Matrix Spike Dup (B8K0091-MSD1)

Source: 1804036-36 Prepared: 11/2/2018 Analyzed: 11/4/2018

Arsenic 9.71162 1.0 0.04 5.00000 2.22455 150 75 - 125 5.14 20 M1



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B8K0091 - EPA 3050B MS_S

Post Spike (B8K0091-PS1) **Source: 1804036-36** Prepared: 11/2/2018 Analyzed: 11/4/2018

Arsenic 5.33702 5.00000 1.11228 84.5 75 - 125



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0289 - EPA 3050B MS_S

Blank (B8K0289-BLK1)							Prepared: 11/8/2018 Analyzed: 11/8/2018			
Arsenic	0.02183	0.25	0.01							J
LCS (B8K0289-BS1)							Prepared: 11/8/2018 Analyzed: 11/8/2018			
Arsenic	4.14572	0.25	0.01	5.00000			82.9	70 - 130		
Matrix Spike (B8K0289-MS1)							Prepared: 11/8/2018 Analyzed: 11/8/2018			
Arsenic	16.3129	1.0	0.04	5.00000	9.91743	128	75 - 125			M1
Matrix Spike Dup (B8K0289-MSD1)							Prepared: 11/8/2018 Analyzed: 11/8/2018			
Arsenic	16.0949	1.0	0.04	5.00000	9.91743	124	75 - 125	1.35	20	



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B8K0289 - EPA 3050B MS_S

Post Spike (B8K0289-PS1) **Source: 1804036-44** Prepared: 11/8/2018 Analyzed: 11/8/2018

Arsenic 9.90531 5.00000 4.95871 98.9 75 - 125



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STLC Metals by ICP-AES by EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0286 - STLC_S Extraction

Blank (B8K0286-BLK1)

Prepared: 11/8/2018 Analyzed: 11/8/2018

Lead	ND	1.0	0.094
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LCS (B8K0286-BS1)

Prepared: 11/8/2018 Analyzed: 11/8/2018

Lead	1.85858		2.00000	92.9	80 - 120
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Duplicate (B8K0286-DUP1)

Prepared: 11/8/2018 Analyzed: 11/8/2018

Lead	3.69599	1.0	0.094	3.70336		0.199	20
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Duplicate (B8K0286-DUP2)

Prepared: 11/8/2018 Analyzed: 11/8/2018

Lead	3.67602	1.0	0.094	3.73674		1.64	20
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Matrix Spike (B8K0286-MS1)

Prepared: 11/8/2018 Analyzed: 11/8/2018

Lead	5.73465		2.50000	3.70336	81.3	70 - 130
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Matrix Spike (B8K0286-MS2)

Prepared: 11/8/2018 Analyzed: 11/8/2018

Lead	5.97494		2.50000	3.73674	89.5	70 - 130
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Matrix Spike Dup (B8K0286-MSD1)

Prepared: 11/8/2018 Analyzed: 11/8/2018

Lead	6.14919		2.50000	3.70336	97.8	70 - 130	6.98	20
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Mercury by AA (Cold Vapor) EPA 7470A - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0015 - EPA 245.1/7470_W

Blank (B8K0015-BLK1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Mercury ND 0.20 0.03

LCS (B8K0015-BS1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Mercury 9.64105 0.20 0.03 10.0000 96.4 80 - 120

Duplicate (B8K0015-DUP1)

Source: 1804036-91 Prepared: 11/1/2018 Analyzed: 11/1/2018

Mercury ND 0.20 0.03 ND NR 20

Matrix Spike (B8K0015-MS1)

Source: 1804036-91 Prepared: 11/1/2018 Analyzed: 11/1/2018

Mercury 9.68201 0.20 0.03 10.0000 ND 96.8 70 - 130

Matrix Spike Dup (B8K0015-MSD1)

Source: 1804036-91 Prepared: 11/1/2018 Analyzed: 11/1/2018

Mercury 10.0115 0.20 0.03 10.0000 ND 100 70 - 130 3.35 20

Post Spike (B8K0015-PS1)

Source: 1804036-91 Prepared: 11/1/2018 Analyzed: 11/1/2018

Mercury 5.14761 5.00000 -0.001308 103 85 - 115



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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0808 - EPA 7471_S

Blank (B8J0808-BLK1)

Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury ND 0.10 0.006

LCS (B8J0808-BS1)

Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.799128 0.10 0.006 0.833333 95.9 80 - 120

Duplicate (B8J0808-DUP1)

Source: 1804036-01 Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.047131 0.10 0.006 0.045198 4.19 20 J

Matrix Spike (B8J0808-MS1)

Source: 1804036-01 Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.889280 0.10 0.006 0.819672 0.045198 103 70 - 130

Matrix Spike Dup (B8J0808-MSD1)

Source: 1804036-01 Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.888773 0.10 0.006 0.833333 0.045198 101 70 - 130 0.0569 20



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Reported : 11/09/2018

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec	RPD	RPD Limit	Notes
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Batch B8J0808 - EPA 7471_S

Post Spike (B8J0808-PS1) Source: 1804036-01 Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.005371 5.00000E-3 5.424E-4 96.6 85 - 115



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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0809 - EPA 7471_S

Blank (B8J0809-BLK1)

Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury ND 0.10 0.006

LCS (B8J0809-BS1)

Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.812659 0.10 0.006 0.833333 97.5 80 - 120

Duplicate (B8J0809-DUP1)

Source: 1804036-54 Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.044820 0.10 0.006 0.027339 48.5 20 R, J

Matrix Spike (B8J0809-MS1)

Source: 1804036-54 Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.899073 0.10 0.006 0.819672 0.027339 106 70 - 130

Matrix Spike Dup (B8J0809-MSD1)

Source: 1804036-54 Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury 0.897226 0.10 0.006 0.833333 0.027339 104 70 - 130 0.206 20



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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec	RPD	RPD Limit	Notes
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Batch B8J0809 - EPA 7471_S

Post Spike (B8J0809-PS1)

Source: 1804036-54

Prepared: 10/30/2018 Analyzed: 11/1/2018

Mercury	6.5456E-3	5.00000E-3	3.281E-4	124	85 - 115	M1
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Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Batch B8J0812 - GCVOA S

Blank (B8J0812-BLK1)

Prepared: 10/30/2018 Analyzed: 10/30/2018

Gasoline Range Organics ND 1.0 0.20
Surrogate: 4-Bromofluorobenzene 0.1770 0.200000 88.5 42 - 153

LCS (B8J0812-BS1)

Prepared: 10/30/2018 Analyzed: 10/30/2018

Gasoline Range Organics	4.11000	1.0	0.20	5.00000	82.2	70 - 130
Surrogate: 4-Bromofluorobenzene	0.1646			0.200000	82.3	42 - 153

Duplicate (B8J0812-DUP1)

Source: 1804036-39

Prepared: 10/30/2018 Analyzed: 10/30/2018

Gasoline Range Organics ND 1.0 0.20 ND NR 20

Surrogate: 4-Bromofluorobenzene 0.1766 0.200000 88.3 42 - 153

Matrix Spike (B8J0812-MS1)

Source: 1804036-39

Prepared: 10/30/2018 Analyzed: 10/30/2018

Matrix Spike Dup (B8J0812-MSD1) Source: 1804036-39 Prepared: 10/30/2018 Analyzed: 10/30/2018

Gasoline Range Organics

0.20 5.00

ND 71.9 22 - 121 1.6

Surrogate: 4-Bromofluorobenzene 0.1778 0.200000 88.9 42 - 153



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0827 - GCVOA_W

Blank (B8J0827-BLK1)

Prepared: 10/31/2018 Analyzed: 10/31/2018

Gasoline Range Organics	ND	0.20	0.05							
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Surrogate: 4-Bromofluorobenzene

0.1018 0.100000 102 70 - 130

LCS (B8J0827-BS1)

Prepared: 10/31/2018 Analyzed: 10/31/2018

Gasoline Range Organics	0.965000	0.20	0.05	1.00000		96.5	70 - 130			
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Surrogate: 4-Bromofluorobenzene

0.1058 0.100000 106 70 - 130

LCS Dup (B8J0827-BSD1)

Prepared: 10/31/2018 Analyzed: 10/31/2018

Gasoline Range Organics	0.985000	0.20	0.05	1.00000		98.5	70 - 130	2.05	20	
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Surrogate: 4-Bromofluorobenzene

0.1030 0.100000 103 70 - 130



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Report To : Ross Surrency

Reported : 11/09/2018

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Batch B8K0002 - GCVOA S

Blank (B8K0002-BLK1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Gasoline Range Organics ND 1.0 0.20
Surrogate: 4-Bromofluorobenzene 0.2104 0.200000 105 42 - 153

LCS (B8K0002-BS1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Gasoline Range Organics	3.61400	1.0	0.20	5.00000	72.3	70 - 130
Surrogate: 4-Bromofluorobenzene	0.1525			0.200000	76.2	42 - 153

Duplicate (B8K0002-DUP1)

Source: 1804036-54

Prepared: 11/1/2018 Analyzed: 11/1/2018

Gasoline Range Organics ND 1.0 0.20 ND NR 20

Surrogate: 4-Bromofluorobenzene 0.2118 0.200000 106 42 - 153

Matrix Spike (B8K0002-MS1)

Source: 1804053-01

Prepared: 11/1/2018 Analyzed: 11/1/2018

Gasoline Range Organics 4.62900 1.0 0.20 5.00000 ND 92.6 22 - 121

Surrogate: 4-Bromofluorobenzene 0.2338 0.200000 117 42 - 153

Source: 1804053-01 Prepared: 11/1/2018 Analyzed: 11/1/2018

Gasoline Range Organics

0.20 5.00

ND 88.5 22 - 121 .

Surrogate: 4-Bromofluorobenzene 0.2217 0.200000 111 42 - 153



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B8J0859 - GCSEMI_DRO_LL_S										
Blank (B8J0859-BLK1)										
DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							
<i>Surrogate: p-Terphenyl</i>	2.610			2.66667		97.9		34 - 158		
LCS (B8J0859-BS1)										
DRO	35.7553	1.0	1.0	33.3333		107		47 - 152		
<i>Surrogate: p-Terphenyl</i>	2.759			2.66667		103		34 - 158		
Duplicate (B8J0859-DUP1)										
DRO	5.39200	1.0	1.0		1.54967				111	20 R
<i>Surrogate: p-Terphenyl</i>	1.507			2.66667		56.5		34 - 158		
Matrix Spike (B8J0859-MS1)										
DRO	27.0797	1.0	1.0	33.3333	1.54967	76.6		34 - 130		
<i>Surrogate: p-Terphenyl</i>	2.145			2.66667		80.4		34 - 158		
Matrix Spike Dup (B8J0859-MSD1)										
DRO	29.2520	1.0	1.0	33.3333	1.54967	83.1		34 - 130	7.71	20
<i>Surrogate: p-Terphenyl</i>	2.266			2.66667		85.0		34 - 158		



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B8J0879 - GCSEMI_DRO_LL_S										
Blank (B8J0879-BLK1)										
DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							
<i>Surrogate: p-Terphenyl</i>	3.137		2.66667		118		34 - 158			
LCS (B8J0879-BS1)										
DRO	28.7357	1.0	1.0	33.3333		86.2	47 - 152			
<i>Surrogate: p-Terphenyl</i>	2.270		2.66667		85.1		34 - 158			
Duplicate (B8J0879-DUP1)										
DRO	10.9510	1.0	1.0		5.55533			65.4	20	R
<i>Surrogate: p-Terphenyl</i>	1.709		2.66667		64.1		34 - 158			
Matrix Spike (B8J0879-MS1)										
DRO	20.7637	1.0	1.0	33.3333	5.55533	45.6	34 - 130			
<i>Surrogate: p-Terphenyl</i>	1.448		2.66667		54.3		34 - 158			
Matrix Spike Dup (B8J0879-MSD1)										
DRO	40.7063	1.0	1.0	33.3333	5.55533	105	34 - 130	64.9	20	R2
<i>Surrogate: p-Terphenyl</i>	1.953		2.66667		73.2		34 - 158			



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0020 - GCSEMI_DRO_W

Blank (B8K0020-BLK1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

DRO	ND	0.05	0.05
ORO	ND	0.05	0.05

Surrogate: *p-Terphenyl* 0.08862 8.00000E-2 111 32 - 169

LCS (B8K0020-BS1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

DRO	0.998590	0.05	0.05	1.00000	99.9	45 - 161
Surrogate: <i>p-Terphenyl</i>	0.08687			8.00000E-2	109	32 - 169

LCS Dup (B8K0020-BSD1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

DRO	1.02587	0.05	0.05	1.00000	103	45 - 161	2.70	20
Surrogate: <i>p-Terphenyl</i>	0.08333			8.00000E-2	104	32 - 169		



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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0820 - GCSEMI_PCB/PEST_S

Blank (B8J0820-BLK1)

Prepared: 10/30/2018 Analyzed: 10/30/2018

4,4'-DDD	ND	2.0	0.07
4,4'-DDD [2C]	ND	2.0	0.07
4,4'-DDE	ND	2.0	0.05
4,4'-DDE [2C]	ND	2.0	0.05
4,4'-DDT	ND	2.0	0.10
4,4'-DDT [2C]	ND	2.0	0.10
Aldrin	ND	1.0	0.04
Aldrin [2C]	ND	1.0	0.04
alpha-BHC	ND	1.0	0.11
alpha-BHC [2C]	ND	1.0	0.11
alpha-Chlordane	ND	1.0	0.12
alpha-Chlordane [2C]	ND	1.0	0.12
beta-BHC	ND	1.0	0.06
beta-BHC [2C]	ND	1.0	0.06
Chlordane	ND	8.5	1.1
Chlordane [2C]	ND	8.5	1.1
delta-BHC	ND	1.0	0.03
delta-BHC [2C]	ND	1.0	0.03
Dieldrin	ND	2.0	0.13
Dieldrin [2C]	ND	2.0	0.13
Endosulfan I	ND	1.0	0.10
Endosulfan I [2C]	ND	1.0	0.10
Endosulfan II	ND	2.0	0.03
Endosulfan II [2C]	ND	2.0	0.03
Endosulfan sulfate	ND	2.0	0.08
Endosulfan Sulfate [2C]	ND	2.0	0.08
Endrin	ND	2.0	0.04
Endrin [2C]	ND	2.0	0.04
Endrin aldehyde	ND	2.0	0.31
Endrin aldehyde [2C]	ND	2.0	0.31
Endrin ketone	ND	2.0	0.13
Endrin ketone [2C]	ND	2.0	0.13
gamma-BHC	ND	1.0	0.10
gamma-BHC [2C]	ND	1.0	0.10
gamma-Chlordane	ND	1.0	0.07
gamma-Chlordane [2C]	ND	1.0	0.07
Heptachlor	ND	1.0	0.05
Heptachlor [2C]	ND	1.0	0.05
Heptachlor epoxide	ND	1.0	0.09
Heptachlor epoxide [2C]	ND	1.0	0.09
Methoxychlor	ND	5.0	0.18



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0820 - GCSEMI_PCB/PEST_S (continued)
Blank (B8J0820-BLK1) - Continued

Prepared: 10/30/2018 Analyzed: 10/30/2018

Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
<i>Surrogate: Decachlorobiphenyl</i>	10.79			16.6667		64.7	43 - 84			
<i>Surrogate: Decachlorobiphenyl [</i>	7.620			16.6667		45.7	43 - 84			
<i>Surrogate: Tetrachloro-m-xylene</i>	12.32			16.6667		73.9	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	12.03			16.6667		72.2	54 - 118			

LCS (B8J0820-BS1)

Prepared: 10/30/2018 Analyzed: 10/30/2018

4,4'-DDD	13.9298	2.0	0.07	16.6667		83.6	73 - 110			
4,4'-DDD [2C]	13.0453	2.0	0.07	16.6667		78.3	73 - 110			
4,4'-DDE	13.3360	2.0	0.05	16.6667		80.0	71 - 99			
4,4'-DDE [2C]	13.6525	2.0	0.05	16.6667		81.9	71 - 99			
4,4'-DDT	11.0328	2.0	0.10	16.6667		66.2	51 - 106			
4,4'-DDT [2C]	13.5797	2.0	0.10	16.6667		81.5	51 - 106			
Aldrin	12.9015	1.0	0.04	16.6667		77.4	67 - 95			
Aldrin [2C]	12.8925	1.0	0.04	16.6667		77.4	67 - 95			
alpha-BHC	13.1245	1.0	0.11	16.6667		78.7	67 - 94			
alpha-BHC [2C]	13.1420	1.0	0.11	16.6667		78.9	67 - 94			
alpha-Chlordane	13.3982	1.0	0.12	16.6667		80.4	69 - 99			
alpha-Chlordane [2C]	12.7508	1.0	0.12	16.6667		76.5	69 - 99			
beta-BHC	13.1260	1.0	0.06	16.6667		78.8	67 - 99			
beta-BHC [2C]	13.3908	1.0	0.06	16.6667		80.3	67 - 99			
delta-BHC	14.5380	1.0	0.03	16.6667		87.2	73 - 103			
delta-BHC [2C]	15.2622	1.0	0.03	16.6667		91.6	73 - 103			
Dieldrin	12.4940	2.0	0.13	16.6667		75.0	65 - 93			
Dieldrin [2C]	12.1118	2.0	0.13	16.6667		72.7	65 - 93			
Endosulfan I	11.7123	1.0	0.10	16.6667		70.3	65 - 91			
Endosulfan I [2C]	12.0663	1.0	0.10	16.6667		72.4	65 - 91			
Endosulfan II	13.3295	2.0	0.03	16.6667		80.0	65 - 102			
Endosulfan II [2C]	13.2028	2.0	0.03	16.6667		79.2	65 - 102			
Endosulfan sulfate	13.1952	2.0	0.08	16.6667		79.2	64 - 106			
Endosulfan Sulfate [2C]	13.8513	2.0	0.08	16.6667		83.1	64 - 106			
Endrin	14.0282	2.0	0.04	16.6667		84.2	64 - 111			
Endrin [2C]	14.5208	2.0	0.04	16.6667		87.1	64 - 111			
Endrin aldehyde	13.5690	2.0	0.31	16.6667		81.4	64 - 109			
Endrin aldehyde [2C]	9.57917	2.0	0.31	16.6667		57.5	64 - 109			L4
Endrin ketone	12.7512	2.0	0.13	16.6667		76.5	57 - 101			
Endrin ketone [2C]	13.2855	2.0	0.13	16.6667		79.7	57 - 101			
gamma-BHC	12.8382	1.0	0.10	16.6667		77.0	65 - 96			
gamma-BHC [2C]	13.1258	1.0	0.10	16.6667		78.8	65 - 96			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0820 - GCSEMI_PCB/PEST_S (continued)
LCS (B8J0820-BS1) - Continued

Prepared: 10/30/2018 Analyzed: 10/30/2018

gamma-Chlordane	13.3370	1.0	0.07	16.6667		80.0	65 - 113			
gamma-Chlordane [2C]	12.3680	1.0	0.07	16.6667		74.2	65 - 113			
Heptachlor	13.2545	1.0	0.05	16.6667		79.5	61 - 96			
Heptachlor [2C]	15.5653	1.0	0.05	16.6667		93.4	61 - 96			
Heptachlor epoxide	12.4858	1.0	0.09	16.6667		74.9	64 - 89			
Heptachlor epoxide [2C]	12.9450	1.0	0.09	16.6667		77.7	64 - 89			
Methoxychlor	17.1233	5.0	0.18	16.6667		103	67 - 109			
Methoxychlor [2C]	14.4872	5.0	0.18	16.6667		86.9	67 - 109			
<i>Surrogate: Decachlorobiphenyl</i>	<i>10.90</i>			<i>16.6667</i>		<i>65.4</i>	<i>43 - 84</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>8.281</i>			<i>16.6667</i>		<i>49.7</i>	<i>43 - 84</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.14</i>			<i>16.6667</i>		<i>72.8</i>	<i>54 - 118</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.43</i>			<i>16.6667</i>		<i>74.6</i>	<i>54 - 118</i>			

Duplicate (B8J0820-DUP1)
Source: 1804036-10

Prepared: 10/30/2018 Analyzed: 10/31/2018

4,4'-DDD	ND	2.0	0.07	ND				20		
4,4'-DDD [2C]	ND	2.0	0.07	ND				20		
4,4'-DDE	ND	2.0	0.05	ND				20		
4,4'-DDE [2C]	ND	2.0	0.05	ND				20		
4,4'-DDT	ND	2.0	0.10	ND				20		
4,4'-DDT [2C]	ND	2.0	0.10	ND				20		
Aldrin	ND	1.0	0.04	ND				20		
Aldrin [2C]	ND	1.0	0.04	ND				20		
alpha-BHC	ND	1.0	0.11	ND				20		
alpha-BHC [2C]	ND	1.0	0.11	ND				20		
alpha-Chlordane	ND	1.0	0.12	ND				20		
alpha-Chlordane [2C]	ND	1.0	0.12	ND				20		
beta-BHC	ND	1.0	0.06	ND				20		
beta-BHC [2C]	ND	1.0	0.06	ND				20		
delta-BHC	ND	1.0	0.03	ND				20		
delta-BHC [2C]	ND	1.0	0.03	ND				20		
Dieldrin	ND	2.0	0.13	ND				20		
Dieldrin [2C]	ND	2.0	0.13	ND				20		
Endosulfan I	ND	1.0	0.10	ND				20		
Endosulfan I [2C]	ND	1.0	0.10	ND				20		
Endosulfan II	ND	2.0	0.03	ND				20		
Endosulfan II [2C]	ND	2.0	0.03	ND				20		
Endosulfan sulfate	ND	2.0	0.08	ND				20		
Endosulfan Sulfate [2C]	ND	2.0	0.08	ND				20		
Endrin	ND	2.0	0.04	ND				20		
Endrin [2C]	ND	2.0	0.04	ND				20		
Endrin aldehyde	ND	2.0	0.31	ND				20		



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0820 - GCSEMI_PCB/PEST_S (continued)

Duplicate (B8J0820-DUP1) - Continued **Source: 1804036-10** Prepared: 10/30/2018 Analyzed: 10/31/2018

Endrin aldehyde [2C]	ND	2.0	0.31		ND				20	
Endrin ketone	ND	2.0	0.13		ND				20	
Endrin ketone [2C]	ND	2.0	0.13		ND				20	
gamma-BHC	ND	1.0	0.10		ND				20	
gamma-BHC [2C]	ND	1.0	0.10		ND				20	
gamma-Chlordane	ND	1.0	0.07		ND				20	
gamma-Chlordane [2C]	ND	1.0	0.07		ND				20	
Heptachlor	ND	1.0	0.05		ND				20	
Heptachlor [2C]	ND	1.0	0.05		ND				20	
Heptachlor epoxide	ND	1.0	0.09		ND				20	
Heptachlor epoxide [2C]	ND	1.0	0.09		ND				20	
Methoxychlor	ND	5.0	0.18		ND				20	
Methoxychlor [2C]	ND	5.0	0.18		ND				20	
<i>Surrogate: Decachlorobiphenyl</i>	5.759		16.6667		34.6	43 - 84			S10	
<i>Surrogate: Decachlorobiphenyl [</i>	6.190		16.6667		37.1	43 - 84			S10	
<i>Surrogate: Tetrachloro-m-xylene</i>	11.24		16.6667		67.4	54 - 118				
<i>Surrogate: Tetrachloro-m-xylene</i>	10.83		16.6667		65.0	54 - 118				

Matrix Spike (B8J0820-MS1) **Source: 1804036-29** Prepared: 10/30/2018 Analyzed: 10/30/2018

4,4'-DDD	11.0975	2.0	0.07	16.6667	ND	66.6	73 - 110		M2	
4,4'-DDD [2C]	10.6560	2.0	0.07	16.6667	ND	63.9	73 - 110		M2	
4,4'-DDE	11.0168	2.0	0.05	16.6667	ND	66.1	71 - 99		M2	
4,4'-DDE [2C]	10.7902	2.0	0.05	16.6667	ND	64.7	71 - 99		M2	
4,4'-DDT	9.25133	2.0	0.10	16.6667	ND	55.5	51 - 106			
4,4'-DDT [2C]	10.7785	2.0	0.10	16.6667	ND	64.7	51 - 106			
Aldrin	10.2952	1.0	0.04	16.6667	ND	61.8	67 - 95		M2	
Aldrin [2C]	10.1335	1.0	0.04	16.6667	ND	60.8	67 - 95		M2	
alpha-BHC	10.5592	1.0	0.11	16.6667	ND	63.4	67 - 94		M2	
alpha-BHC [2C]	10.8157	1.0	0.11	16.6667	ND	64.9	67 - 94		M2	
alpha-Chlordane	10.7318	1.0	0.12	16.6667	ND	64.4	69 - 99		M2	
alpha-Chlordane [2C]	10.5288	1.0	0.12	16.6667	ND	63.2	69 - 99		M2	
beta-BHC	10.7823	1.0	0.06	16.6667	ND	64.7	67 - 99		M2	
beta-BHC [2C]	10.8272	1.0	0.06	16.6667	ND	65.0	67 - 99		M2	
delta-BHC	11.5543	1.0	0.03	16.6667	ND	69.3	73 - 103		M2	
delta-BHC [2C]	12.3573	1.0	0.03	16.6667	ND	74.1	73 - 103			
Dieldrin	10.0660	2.0	0.13	16.6667	ND	60.4	65 - 93		M2	
Dieldrin [2C]	9.72750	2.0	0.13	16.6667	ND	58.4	65 - 93		M2	
Endosulfan I	9.54383	1.0	0.10	16.6667	ND	57.3	65 - 91		M2	
Endosulfan I [2C]	9.74617	1.0	0.10	16.6667	ND	58.5	65 - 91		M2	
Endosulfan II	10.7603	2.0	0.03	16.6667	ND	64.6	65 - 102		M2	
Endosulfan II [2C]	10.6295	2.0	0.03	16.6667	ND	63.8	65 - 102		M2	



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0820 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B8J0820-MS1) - Continued		Source: 1804036-29		Prepared: 10/30/2018 Analyzed: 10/30/2018					
Endosulfan sulfate	10.4555	2.0	0.08	16.6667	ND	62.7	64 - 106		M2
Endosulfan Sulfate [2C]	11.1590	2.0	0.08	16.6667	ND	67.0	64 - 106		
Endrin	11.2487	2.0	0.04	16.6667	ND	67.5	64 - 111		
Endrin [2C]	11.6777	2.0	0.04	16.6667	ND	70.1	64 - 111		
Endrin aldehyde	11.1802	2.0	0.31	16.6667	ND	67.1	64 - 109		
Endrin aldehyde [2C]	9.22167	2.0	0.31	16.6667	ND	55.3	64 - 109		M2
Endrin ketone	9.79883	2.0	0.13	16.6667	ND	58.8	57 - 101		
Endrin ketone [2C]	9.55617	2.0	0.13	16.6667	ND	57.3	57 - 101		
gamma-BHC	10.4373	1.0	0.10	16.6667	ND	62.6	65 - 96		M2
gamma-BHC [2C]	10.6830	1.0	0.10	16.6667	ND	64.1	65 - 96		M2
gamma-Chlordane	10.4165	1.0	0.07	16.6667	ND	62.5	65 - 113		M2
gamma-Chlordane [2C]	9.28483	1.0	0.07	16.6667	ND	55.7	65 - 113		M2
Heptachlor	10.7188	1.0	0.05	16.6667	ND	64.3	61 - 96		
Heptachlor [2C]	11.4228	1.0	0.05	16.6667	ND	68.5	61 - 96		
Heptachlor epoxide	10.1132	1.0	0.09	16.6667	ND	60.7	64 - 89		M2
Heptachlor epoxide [2C]	10.4325	1.0	0.09	16.6667	ND	62.6	64 - 89		M2
Methoxychlor	11.8853	5.0	0.18	16.6667	ND	71.3	67 - 109		
Methoxychlor [2C]	11.5860	5.0	0.18	16.6667	ND	69.5	67 - 109		
<i>Surrogate: Decachlorobiphenyl</i>	9.090			16.6667		54.5	43 - 84		
<i>Surrogate: Decachlorobiphenyl [</i>	6.786			16.6667		40.7	43 - 84		S10
<i>Surrogate: Tetrachloro-m-xylene</i>	10.08			16.6667		60.5	54 - 118		
<i>Surrogate: Tetrachloro-m-xylene</i>	10.05			16.6667		60.3	54 - 118		

Matrix Spike Dup (B8J0820-MSD1)		Source: 1804036-29		Prepared: 10/30/2018 Analyzed: 10/30/2018						
4,4'-DDD	10.5022	2.0	0.07	16.6667	ND	63.0	73 - 110	5.51	20	M2
4,4'-DDD [2C]	9.76517	2.0	0.07	16.6667	ND	58.6	73 - 110	8.72	20	M2
4,4'-DDE	10.5947	2.0	0.05	16.6667	ND	63.6	71 - 99	3.91	20	M2
4,4'-DDE [2C]	10.1447	2.0	0.05	16.6667	ND	60.9	71 - 99	6.17	20	M2
4,4'-DDT	8.73150	2.0	0.10	16.6667	ND	52.4	51 - 106	5.78	20	
4,4'-DDT [2C]	9.84233	2.0	0.10	16.6667	ND	59.1	51 - 106	9.08	20	
Aldrin	10.0142	1.0	0.04	16.6667	ND	60.1	67 - 95	2.77	20	M2
Aldrin [2C]	9.74533	1.0	0.04	16.6667	ND	58.5	67 - 95	3.91	20	M2
alpha-BHC	10.3640	1.0	0.11	16.6667	ND	62.2	67 - 94	1.87	20	M2
alpha-BHC [2C]	10.5502	1.0	0.11	16.6667	ND	63.3	67 - 94	2.49	20	M2
alpha-Chlordane	10.3258	1.0	0.12	16.6667	ND	62.0	69 - 99	3.86	20	M2
alpha-Chlordane [2C]	9.89783	1.0	0.12	16.6667	ND	59.4	69 - 99	6.18	20	M2
beta-BHC	10.5205	1.0	0.06	16.6667	ND	63.1	67 - 99	2.46	20	M2
beta-BHC [2C]	10.5100	1.0	0.06	16.6667	ND	63.1	67 - 99	2.97	20	M2
delta-BHC	11.7655	1.0	0.03	16.6667	ND	70.6	73 - 103	1.81	20	M2
delta-BHC [2C]	11.9055	1.0	0.03	16.6667	ND	71.4	73 - 103	3.72	20	M2
Dieldrin	9.62100	2.0	0.13	16.6667	ND	57.7	65 - 93	4.52	20	M2



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8J0820 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B8J0820-MSD1) - Continued		Source: 1804036-29		Prepared: 10/30/2018 Analyzed: 10/30/2018						
Dieldrin [2C]	8.87100	2.0	0.13	16.6667	ND	53.2	65 - 93	9.21	20	M2
Endosulfan I	9.63000	1.0	0.10	16.6667	ND	57.8	65 - 91	0.899	20	M2
Endosulfan I [2C]	9.07083	1.0	0.10	16.6667	ND	54.4	65 - 91	7.18	20	M2
Endosulfan II	10.1953	2.0	0.03	16.6667	ND	61.2	65 - 102	5.39	20	M2
Endosulfan II [2C]	9.79567	2.0	0.03	16.6667	ND	58.8	65 - 102	8.16	20	M2
Endosulfan sulfate	10.0293	2.0	0.08	16.6667	ND	60.2	64 - 106	4.16	20	M2
Endosulfan Sulfate [2C]	10.3268	2.0	0.08	16.6667	ND	62.0	64 - 106	7.75	20	M2
Endrin	10.7265	2.0	0.04	16.6667	ND	64.4	64 - 111	4.75	20	
Endrin [2C]	10.8195	2.0	0.04	16.6667	ND	64.9	64 - 111	7.63	20	
Endrin aldehyde	10.6760	2.0	0.31	16.6667	ND	64.1	64 - 109	4.61	20	
Endrin aldehyde [2C]	8.64017	2.0	0.31	16.6667	ND	51.8	64 - 109	6.51	20	M2
Endrin ketone	9.16433	2.0	0.13	16.6667	ND	55.0	57 - 101	6.69	20	M2
Endrin ketone [2C]	9.16550	2.0	0.13	16.6667	ND	55.0	57 - 101	4.17	20	M2
gamma-BHC	10.2137	1.0	0.10	16.6667	ND	61.3	65 - 96	2.17	20	M2
gamma-BHC [2C]	10.3818	1.0	0.10	16.6667	ND	62.3	65 - 96	2.86	20	M2
gamma-Chlordane	9.97667	1.0	0.07	16.6667	ND	59.9	65 - 113	4.31	20	M2
gamma-Chlordane [2C]	8.79233	1.0	0.07	16.6667	ND	52.8	65 - 113	5.45	20	M2
Heptachlor	10.4140	1.0	0.05	16.6667	ND	62.5	61 - 96	2.88	20	
Heptachlor [2C]	10.9987	1.0	0.05	16.6667	ND	66.0	61 - 96	3.78	20	
Heptachlor epoxide	9.66933	1.0	0.09	16.6667	ND	58.0	64 - 89	4.49	20	M2
Heptachlor epoxide [2C]	9.85367	1.0	0.09	16.6667	ND	59.1	64 - 89	5.71	20	M2
Methoxychlor	11.9380	5.0	0.18	16.6667	ND	71.6	67 - 109	0.442	20	
Methoxychlor [2C]	11.8327	5.0	0.18	16.6667	ND	71.0	67 - 109	2.11	20	
Surrogate: Decachlorobiphenyl	8.561			16.6667		51.4	43 - 84			
Surrogate: Decachlorobiphenyl /	8.023			16.6667		48.1	43 - 84			
Surrogate: Tetrachloro-m-xylene	10.01			16.6667		60.1	54 - 118			
Surrogate: Tetrachloro-m-xylene	9.794			16.6667		58.8	54 - 118			



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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0014 - GCSEMI_PCB/PEST_S

Blank (B8K0014-BLK1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

4,4'-DDD	ND	2.0	0.07
4,4'-DDD [2C]	ND	2.0	0.07
4,4'-DDE	ND	2.0	0.05
4,4'-DDE [2C]	ND	2.0	0.05
4,4'-DDT	ND	2.0	0.10
4,4'-DDT [2C]	ND	2.0	0.10
Aldrin	ND	1.0	0.04
Aldrin [2C]	ND	1.0	0.04
alpha-BHC	ND	1.0	0.11
alpha-BHC [2C]	ND	1.0	0.11
alpha-Chlordane	ND	1.0	0.12
alpha-Chlordane [2C]	ND	1.0	0.12
beta-BHC	ND	1.0	0.06
beta-BHC [2C]	ND	1.0	0.06
Chlordane	ND	8.5	1.1
Chlordane [2C]	ND	8.5	1.1
delta-BHC	ND	1.0	0.03
delta-BHC [2C]	ND	1.0	0.03
Dieldrin	ND	2.0	0.13
Dieldrin [2C]	ND	2.0	0.13
Endosulfan I	ND	1.0	0.10
Endosulfan I [2C]	ND	1.0	0.10
Endosulfan II	ND	2.0	0.03
Endosulfan II [2C]	ND	2.0	0.03
Endosulfan sulfate	ND	2.0	0.08
Endosulfan Sulfate [2C]	ND	2.0	0.08
Endrin	ND	2.0	0.04
Endrin [2C]	ND	2.0	0.04
Endrin aldehyde	ND	2.0	0.31
Endrin aldehyde [2C]	ND	2.0	0.31
Endrin ketone	ND	2.0	0.13
Endrin ketone [2C]	ND	2.0	0.13
gamma-BHC	ND	1.0	0.10
gamma-BHC [2C]	ND	1.0	0.10
gamma-Chlordane	ND	1.0	0.07
gamma-Chlordane [2C]	ND	1.0	0.07
Heptachlor	ND	1.0	0.05
Heptachlor [2C]	ND	1.0	0.05
Heptachlor epoxide	ND	1.0	0.09
Heptachlor epoxide [2C]	ND	1.0	0.09
Methoxychlor	ND	5.0	0.18



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0014 - GCSEMI_PCB/PEST_S (continued)
Blank (B8K0014-BLK1) - Continued

Prepared: 11/1/2018 Analyzed: 11/1/2018

Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
<i>Surrogate: Decachlorobiphenyl</i>	10.64			16.6667		63.8	43 - 84			
<i>Surrogate: Decachlorobiphenyl [</i>	7.627			16.6667		45.8	43 - 84			
<i>Surrogate: Tetrachloro-m-xylene</i>	11.88			16.6667		71.3	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	11.63			16.6667		69.8	54 - 118			

LCS (B8K0014-BS1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

4,4'-DDD	13.9032	2.0	0.07	16.6667		83.4	73 - 110			
4,4'-DDD [2C]	12.8760	2.0	0.07	16.6667		77.3	73 - 110			
4,4'-DDE	12.7042	2.0	0.05	16.6667		76.2	71 - 99			
4,4'-DDE [2C]	12.9537	2.0	0.05	16.6667		77.7	71 - 99			
4,4'-DDT	9.34467	2.0	0.10	16.6667		56.1	51 - 106			
4,4'-DDT [2C]	11.3953	2.0	0.10	16.6667		68.4	51 - 106			
Aldrin	12.4868	1.0	0.04	16.6667		74.9	67 - 95			
Aldrin [2C]	12.3138	1.0	0.04	16.6667		73.9	67 - 95			
alpha-BHC	12.6787	1.0	0.11	16.6667		76.1	67 - 94			
alpha-BHC [2C]	12.6658	1.0	0.11	16.6667		76.0	67 - 94			
alpha-Chlordane	12.7655	1.0	0.12	16.6667		76.6	69 - 99			
alpha-Chlordane [2C]	12.0602	1.0	0.12	16.6667		72.4	69 - 99			
beta-BHC	13.0698	1.0	0.06	16.6667		78.4	67 - 99			
beta-BHC [2C]	13.2680	1.0	0.06	16.6667		79.6	67 - 99			
delta-BHC	15.1275	1.0	0.03	16.6667		90.8	73 - 103			
delta-BHC [2C]	14.7895	1.0	0.03	16.6667		88.7	73 - 103			
Dieldrin	12.1737	2.0	0.13	16.6667		73.0	65 - 93			
Dieldrin [2C]	11.3960	2.0	0.13	16.6667		68.4	65 - 93			
Endosulfan I	11.8808	1.0	0.10	16.6667		71.3	65 - 91			
Endosulfan I [2C]	11.1542	1.0	0.10	16.6667		66.9	65 - 91			
Endosulfan II	12.6028	2.0	0.03	16.6667		75.6	65 - 102			
Endosulfan II [2C]	12.0338	2.0	0.03	16.6667		72.2	65 - 102			
Endosulfan sulfate	12.6428	2.0	0.08	16.6667		75.9	64 - 106			
Endosulfan Sulfate [2C]	13.2803	2.0	0.08	16.6667		79.7	64 - 106			
Endrin	13.1450	2.0	0.04	16.6667		78.9	64 - 111			
Endrin [2C]	13.1547	2.0	0.04	16.6667		78.9	64 - 111			
Endrin aldehyde	13.4642	2.0	0.31	16.6667		80.8	64 - 109			
Endrin aldehyde [2C]	9.40533	2.0	0.31	16.6667		56.4	64 - 109			L4
Endrin ketone	11.0772	2.0	0.13	16.6667		66.5	57 - 101			
Endrin ketone [2C]	12.5242	2.0	0.13	16.6667		75.1	57 - 101			
gamma-BHC	12.5142	1.0	0.10	16.6667		75.1	65 - 96			
gamma-BHC [2C]	12.6888	1.0	0.10	16.6667		76.1	65 - 96			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0014 - GCSEMI_PCB/PEST_S (continued)
LCS (B8K0014-BS1) - Continued

Prepared: 11/1/2018 Analyzed: 11/1/2018

gamma-Chlordane	12.8535	1.0	0.07	16.6667		77.1	65 - 113			
gamma-Chlordane [2C]	12.1615	1.0	0.07	16.6667		73.0	65 - 113			
Heptachlor	12.6930	1.0	0.05	16.6667		76.2	61 - 96			
Heptachlor [2C]	14.7955	1.0	0.05	16.6667		88.8	61 - 96			
Heptachlor epoxide	11.9672	1.0	0.09	16.6667		71.8	64 - 89			
Heptachlor epoxide [2C]	12.1378	1.0	0.09	16.6667		72.8	64 - 89			
Methoxychlor	16.3872	5.0	0.18	16.6667		98.3	67 - 109			
Methoxychlor [2C]	13.0935	5.0	0.18	16.6667		78.6	67 - 109			
<i>Surrogate: Decachlorobiphenyl</i>	<i>10.95</i>			<i>16.6667</i>		<i>65.7</i>	<i>43 - 84</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>7.571</i>			<i>16.6667</i>		<i>45.4</i>	<i>43 - 84</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.06</i>			<i>16.6667</i>		<i>72.3</i>	<i>54 - 118</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>11.90</i>			<i>16.6667</i>		<i>71.4</i>	<i>54 - 118</i>			

Duplicate (B8K0014-DUP1)
Source: 1804036-57

Prepared: 11/1/2018 Analyzed: 11/1/2018

4,4'-DDD	0.300833	2.0	0.07	ND		NR	20	J		
4,4'-DDD [2C]	0.239667	2.0	0.07	ND		NR	20	J		
4,4'-DDE	ND	2.0	0.05	ND			20			
4,4'-DDE [2C]	ND	2.0	0.05	ND			20			
4,4'-DDT	ND	2.0	0.10	ND			20			
4,4'-DDT [2C]	ND	2.0	0.10	ND			20			
Aldrin	ND	1.0	0.04	ND			20			
Aldrin [2C]	ND	1.0	0.04	ND			20			
alpha-BHC	ND	1.0	0.11	ND			20			
alpha-BHC [2C]	ND	1.0	0.11	ND			20			
alpha-Chlordane	ND	1.0	0.12	ND			20			
alpha-Chlordane [2C]	ND	1.0	0.12	ND			20			
beta-BHC	ND	1.0	0.06	ND			20			
beta-BHC [2C]	ND	1.0	0.06	ND			20			
delta-BHC	ND	1.0	0.03	ND			20			
delta-BHC [2C]	ND	1.0	0.03	ND			20			
Dieldrin	ND	2.0	0.13	ND			20			
Dieldrin [2C]	ND	2.0	0.13	ND			20			
Endosulfan I	ND	1.0	0.10	ND			20			
Endosulfan I [2C]	ND	1.0	0.10	ND			20			
Endosulfan II	ND	2.0	0.03	ND			20			
Endosulfan II [2C]	ND	2.0	0.03	ND			20			
Endosulfan sulfate	ND	2.0	0.08	ND			20			
Endosulfan Sulfate [2C]	ND	2.0	0.08	ND			20			
Endrin	ND	2.0	0.04	ND			20			
Endrin [2C]	ND	2.0	0.04	ND			20			
Endrin aldehyde	ND	2.0	0.31	ND			20			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0014 - GCSEMI_PCB/PEST_S (continued)

Duplicate (B8K0014-DUP1) - Continued **Source: 1804036-57** Prepared: 11/1/2018 Analyzed: 11/1/2018

Endrin aldehyde [2C]	ND	2.0	0.31		ND				20	
Endrin ketone	ND	2.0	0.13		ND				20	
Endrin ketone [2C]	ND	2.0	0.13		ND				20	
gamma-BHC	ND	1.0	0.10		ND				20	
gamma-BHC [2C]	ND	1.0	0.10		ND				20	
gamma-Chlordane	ND	1.0	0.07		ND				20	
gamma-Chlordane [2C]	ND	1.0	0.07		ND				20	
Heptachlor	ND	1.0	0.05		ND				20	
Heptachlor [2C]	ND	1.0	0.05		ND				20	
Heptachlor epoxide	ND	1.0	0.09		ND				20	
Heptachlor epoxide [2C]	ND	1.0	0.09		ND				20	
Methoxychlor	ND	5.0	0.18		ND				20	
Methoxychlor [2C]	ND	5.0	0.18		ND				20	

Surrogate: Decachlorobiphenyl 12.57 16.6667 75.4 43 - 84

Surrogate: Decachlorobiphenyl [11.34 16.6667 68.0 43 - 84

Surrogate: Tetrachloro-m-xylene 10.88 16.6667 65.3 54 - 118

Surrogate: Tetrachloro-m-xylene 11.83 16.6667 71.0 54 - 118

Matrix Spike (B8K0014-MS1) **Source: 1804036-60** Prepared: 11/1/2018 Analyzed: 11/1/2018

4,4'-DDD	14.9093	2.0	0.07	16.6667	0.134667	88.6	73 - 110			
4,4'-DDD [2C]	14.4007	2.0	0.07	16.6667	0.124500	85.7	73 - 110			
4,4'-DDE	11.6627	2.0	0.05	16.6667	ND	70.0	71 - 99			M2
4,4'-DDE [2C]	10.7557	2.0	0.05	16.6667	ND	64.5	71 - 99			M2
4,4'-DDT	2.55500	2.0	0.10	16.6667	ND	15.3	51 - 106			M2
4,4'-DDT [2C]	3.94717	2.0	0.10	16.6667	ND	23.7	51 - 106			M2
Aldrin	10.3393	1.0	0.04	16.6667	ND	62.0	67 - 95			M2
Aldrin [2C]	10.2443	1.0	0.04	16.6667	ND	61.5	67 - 95			M2
alpha-BHC	10.0763	1.0	0.11	16.6667	ND	60.5	67 - 94			M2
alpha-BHC [2C]	10.1048	1.0	0.11	16.6667	ND	60.6	67 - 94			M2
alpha-Chlordane	10.8088	1.0	0.12	16.6667	ND	64.9	69 - 99			M2
alpha-Chlordane [2C]	10.1252	1.0	0.12	16.6667	0.121500	60.0	69 - 99			M2
beta-BHC	10.4625	1.0	0.06	16.6667	ND	62.8	67 - 99			M2
beta-BHC [2C]	10.5622	1.0	0.06	16.6667	ND	63.4	67 - 99			M2
delta-BHC	12.6160	1.0	0.03	16.6667	ND	75.7	73 - 103			
delta-BHC [2C]	12.1970	1.0	0.03	16.6667	ND	73.2	73 - 103			
Dieldrin	11.2695	2.0	0.13	16.6667	ND	67.6	65 - 93			
Dieldrin [2C]	9.75783	2.0	0.13	16.6667	ND	58.5	65 - 93			M2
Endosulfan I	9.89167	1.0	0.10	16.6667	ND	59.3	65 - 91			M2
Endosulfan I [2C]	9.65383	1.0	0.10	16.6667	ND	57.9	65 - 91			M2
Endosulfan II	11.4667	2.0	0.03	16.6667	ND	68.8	65 - 102			
Endosulfan II [2C]	10.5560	2.0	0.03	16.6667	ND	63.3	65 - 102			M2



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17781 Cowan Street
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Project Number : LAUSD- Colfax ES, 11640.008
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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0014 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B8K0014-MS1) - Continued		Source: 1804036-60		Prepared: 11/1/2018 Analyzed: 11/1/2018					
Endosulfan sulfate	11.9930	2.0	0.08	16.6667	ND	72.0	64 - 106		
Endosulfan Sulfate [2C]	10.7772	2.0	0.08	16.6667	ND	64.7	64 - 106		
Endrin	10.8493	2.0	0.04	16.6667	ND	65.1	64 - 111		
Endrin [2C]	10.9987	2.0	0.04	16.6667	ND	66.0	64 - 111		
Endrin aldehyde	12.8488	2.0	0.31	16.6667	ND	77.1	64 - 109		
Endrin aldehyde [2C]	7.51050	2.0	0.31	16.6667	ND	45.1	64 - 109		M2
Endrin ketone	9.97383	2.0	0.13	16.6667	ND	59.8	57 - 101		
Endrin ketone [2C]	10.3603	2.0	0.13	16.6667	ND	62.2	57 - 101		
gamma-BHC	9.56767	1.0	0.10	16.6667	ND	57.4	65 - 96		M2
gamma-BHC [2C]	10.1465	1.0	0.10	16.6667	ND	60.9	65 - 96		M2
gamma-Chlordane	10.6227	1.0	0.07	16.6667	0.088	63.2	65 - 113		M2
gamma-Chlordane [2C]	10.0658	1.0	0.07	16.6667	ND	60.4	65 - 113		M2
Heptachlor	9.37283	1.0	0.05	16.6667	ND	56.2	61 - 96		M2
Heptachlor [2C]	12.4852	1.0	0.05	16.6667	ND	74.9	61 - 96		
Heptachlor epoxide	10.9458	1.0	0.09	16.6667	ND	65.7	64 - 89		
Heptachlor epoxide [2C]	10.3495	1.0	0.09	16.6667	ND	62.1	64 - 89		M2
Methoxychlor	14.5348	5.0	0.18	16.6667	ND	87.2	67 - 109		
Methoxychlor [2C]	4.98300	5.0	0.18	16.6667	ND	29.9	67 - 109		M2, J
Surrogate: Decachlorobiphenyl	6.921			16.6667		41.5	43 - 84		S10
Surrogate: Decachlorobiphenyl [	5.440			16.6667		32.6	43 - 84		S10
Surrogate: Tetrachloro-m-xylene	6.684			16.6667		40.1	54 - 118		S10
Surrogate: Tetrachloro-m-xylene	6.445			16.6667		38.7	54 - 118		S10

Matrix Spike Dup (B8K0014-MSD1)		Source: 1804036-60		Prepared: 11/1/2018 Analyzed: 11/1/2018					
4,4'-DDD	13.9287	2.0	0.07	16.6667	0.134667	82.8	73 - 110	6.80	20
4,4'-DDD [2C]	12.9893	2.0	0.07	16.6667	0.124500	77.2	73 - 110	10.3	20
4,4'-DDE	10.9975	2.0	0.05	16.6667	ND	66.0	71 - 99	5.87	20
4,4'-DDE [2C]	10.0180	2.0	0.05	16.6667	ND	60.1	71 - 99	7.10	M2
4,4'-DDT	2.62467	2.0	0.10	16.6667	ND	15.7	51 - 106	2.69	20
4,4'-DDT [2C]	3.16300	2.0	0.10	16.6667	ND	19.0	51 - 106	22.1	20
Aldrin	10.2338	1.0	0.04	16.6667	ND	61.4	67 - 95	1.03	M2
Aldrin [2C]	9.48000	1.0	0.04	16.6667	ND	56.9	67 - 95	7.75	M2
alpha-BHC	9.41183	1.0	0.11	16.6667	ND	56.5	67 - 94	6.82	20
alpha-BHC [2C]	9.30017	1.0	0.11	16.6667	ND	55.8	67 - 94	8.29	M2
alpha-Chlordane	10.2037	1.0	0.12	16.6667	ND	61.2	69 - 99	5.76	20
alpha-Chlordane [2C]	9.44867	1.0	0.12	16.6667	0.121500	56.0	69 - 99	6.91	M2
beta-BHC	9.78667	1.0	0.06	16.6667	ND	58.7	67 - 99	6.68	20
beta-BHC [2C]	9.73367	1.0	0.06	16.6667	ND	58.4	67 - 99	8.16	M2
delta-BHC	11.7647	1.0	0.03	16.6667	ND	70.6	73 - 103	6.98	20
delta-BHC [2C]	11.2465	1.0	0.03	16.6667	ND	67.5	73 - 103	8.11	M2
Dieldrin	10.6637	2.0	0.13	16.6667	ND	64.0	65 - 93	5.52	20



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0014 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B8K0014-MSD1) - Continued		Source: 1804036-60		Prepared: 11/1/2018 Analyzed: 11/1/2018						
Dieldrin [2C]	9.17683	2.0	0.13	16.6667	ND	55.1	65 - 93	6.14	20	M2
Endosulfan I	9.32050	1.0	0.10	16.6667	ND	55.9	65 - 91	5.95	20	M2
Endosulfan I [2C]	9.02917	1.0	0.10	16.6667	ND	54.2	65 - 91	6.69	20	M2
Endosulfan II	10.7755	2.0	0.03	16.6667	ND	64.7	65 - 102	6.21	20	M2
Endosulfan II [2C]	9.29100	2.0	0.03	16.6667	ND	55.7	65 - 102	12.7	20	M2
Endosulfan sulfate	11.3768	2.0	0.08	16.6667	ND	68.3	64 - 106	5.27	20	
Endosulfan Sulfate [2C]	9.99533	2.0	0.08	16.6667	ND	60.0	64 - 106	7.53	20	M2
Endrin	10.2453	2.0	0.04	16.6667	ND	61.5	64 - 111	5.73	20	M2
Endrin [2C]	10.1765	2.0	0.04	16.6667	ND	61.1	64 - 111	7.77	20	M2
Endrin aldehyde	12.0927	2.0	0.31	16.6667	ND	72.6	64 - 109	6.06	20	
Endrin aldehyde [2C]	6.77233	2.0	0.31	16.6667	ND	40.6	64 - 109	10.3	20	M2
Endrin ketone	9.52867	2.0	0.13	16.6667	ND	57.2	57 - 101	4.57	20	
Endrin ketone [2C]	9.78783	2.0	0.13	16.6667	ND	58.7	57 - 101	5.68	20	
gamma-BHC	8.96000	1.0	0.10	16.6667	ND	53.8	65 - 96	6.56	20	M2
gamma-BHC [2C]	9.35650	1.0	0.10	16.6667	ND	56.1	65 - 96	8.10	20	M2
gamma-Chlordane	10.0515	1.0	0.07	16.6667	0.088	59.8	65 - 113	5.53	20	M2
gamma-Chlordane [2C]	9.41000	1.0	0.07	16.6667	ND	56.5	65 - 113	6.73	20	M2
Heptachlor	8.85667	1.0	0.05	16.6667	ND	53.1	61 - 96	5.66	20	M2
Heptachlor [2C]	11.6270	1.0	0.05	16.6667	ND	69.8	61 - 96	7.12	20	
Heptachlor epoxide	10.3620	1.0	0.09	16.6667	ND	62.2	64 - 89	5.48	20	M2
Heptachlor epoxide [2C]	9.71150	1.0	0.09	16.6667	ND	58.3	64 - 89	6.36	20	M2
Methoxychlor	14.3120	5.0	0.18	16.6667	ND	85.9	67 - 109	1.54	20	
Methoxychlor [2C]	5.15833	5.0	0.18	16.6667	ND	30.9	67 - 109	3.46	20	M2
Surrogate: Decachlorobiphenyl	5.170			16.6667		31.0	43 - 84			S10
Surrogate: Decachlorobiphenyl /	5.013			16.6667		30.1	43 - 84			S10
Surrogate: Tetrachloro-m-xylene	6.284			16.6667		37.7	54 - 118			S10
Surrogate: Tetrachloro-m-xylene	5.994			16.6667		36.0	54 - 118			S10



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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0028 - GCSEMI_PCB/PEST_W

Blank (B8K0028-BLK1)

Prepared: 11/1/2018 Analyzed: 11/1/2018

4,4'-DDD	ND	0.05	0.006
4,4'-DDD [2C]	ND	0.05	0.006
4,4'-DDE	ND	0.05	0.005
4,4'-DDE [2C]	ND	0.05	0.005
4,4'-DDT	ND	0.05	0.01
4,4'-DDT [2C]	ND	0.05	0.01
Aldrin	ND	0.02	0.002
Aldrin [2C]	ND	0.02	0.002
alpha-BHC	ND	0.02	0.002
alpha-BHC [2C]	ND	0.02	0.002
alpha-Chlordane	ND	0.02	0.003
alpha-Chlordane [2C]	ND	0.02	0.003
beta-BHC	ND	0.02	0.002
beta-BHC [2C]	ND	0.02	0.002
Chlordane	ND	0.25	0.03
Chlordane [2C]	ND	0.25	0.03
delta-BHC	ND	0.02	0.002
delta-BHC [2C]	ND	0.02	0.002
Dieldrin	ND	0.05	0.002
Dieldrin [2C]	ND	0.05	0.002
Endosulfan I	ND	0.02	0.005
Endosulfan I [2C]	ND	0.02	0.005
Endosulfan II	ND	0.05	0.009
Endosulfan II [2C]	ND	0.05	0.009
Endosulfan sulfate	ND	0.05	0.01
Endosulfan Sulfate [2C]	ND	0.05	0.01
Endrin	ND	0.05	0.005
Endrin [2C]	ND	0.05	0.005
Endrin aldehyde	ND	0.05	0.003
Endrin aldehyde [2C]	ND	0.05	0.003
Endrin ketone	ND	0.05	0.003
Endrin ketone [2C]	ND	0.05	0.003
gamma-BHC	ND	0.02	0.002
gamma-BHC [2C]	ND	0.02	0.002
gamma-Chlordane	ND	0.02	0.002
gamma-Chlordane [2C]	ND	0.02	0.002
Heptachlor	ND	0.02	0.002
Heptachlor [2C]	ND	0.02	0.002
Heptachlor epoxide	ND	0.02	0.002
Heptachlor epoxide [2C]	ND	0.02	0.002
Methoxychlor	ND	0.25	0.008



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0028 - GCSEMI_PCB/PEST_W (continued)
Blank (B8K0028-BLK1) - Continued

Prepared: 11/1/2018 Analyzed: 11/1/2018

Methoxychlor [2C]	ND	0.25	0.008							
Toxaphene	ND	2.5	0.23							
Toxaphene [2C]	ND	2.5	0.23							
<i>Surrogate: Decachlorobiphenyl</i>	0.2466		0.500000		49.3		8 - 128			
<i>Surrogate: Decachlorobiphenyl [</i>	0.2441		0.500000		48.8		8 - 128			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.3449		0.500000		69.0		32 - 126			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.3434		0.500000		68.7		32 - 126			

LCS (B8K0028-BS1)

Prepared: 11/1/2018 Analyzed: 11/2/2018

4,4'-DDD	0.379200	0.05	0.006	0.500000		75.8	56 - 126			
4,4'-DDD [2C]	0.405045	0.05	0.006	0.500000		81.0	56 - 126			
4,4'-DDE	0.408240	0.05	0.005	0.500000		81.6	53 - 127			
4,4'-DDE [2C]	0.366535	0.05	0.005	0.500000		73.3	53 - 127			
4,4'-DDT	0.344815	0.05	0.01	0.500000		69.0	27 - 134			
4,4'-DDT [2C]	0.402390	0.05	0.01	0.500000		80.5	27 - 134			
Aldrin	0.387250	0.02	0.002	0.500000		77.4	53 - 123			
Aldrin [2C]	0.361420	0.02	0.002	0.500000		72.3	53 - 123			
alpha-BHC	0.369530	0.02	0.002	0.500000		73.9	58 - 120			
alpha-BHC [2C]	0.374550	0.02	0.002	0.500000		74.9	58 - 120			
alpha-Chlordane	0.396235	0.02	0.003	0.500000		79.2	55 - 123			
alpha-Chlordane [2C]	0.357070	0.02	0.003	0.500000		71.4	55 - 123			
beta-BHC	0.365480	0.02	0.002	0.500000		73.1	53 - 116			
beta-BHC [2C]	0.373945	0.02	0.002	0.500000		74.8	53 - 116			
delta-BHC	0.384510	0.02	0.002	0.500000		76.9	27 - 136			
delta-BHC [2C]	0.426360	0.02	0.002	0.500000		85.3	27 - 136			
Dieldrin	0.372235	0.05	0.002	0.500000		74.4	55 - 114			
Dieldrin [2C]	0.362160	0.05	0.002	0.500000		72.4	55 - 114			
Endosulfan I	0.362830	0.02	0.005	0.500000		72.6	52 - 117			
Endosulfan I [2C]	0.341905	0.02	0.005	0.500000		68.4	52 - 117			
Endosulfan II	0.383600	0.05	0.009	0.500000		76.7	53 - 128			
Endosulfan II [2C]	0.399730	0.05	0.009	0.500000		79.9	53 - 128			
Endosulfan sulfate	0.393445	0.05	0.01	0.500000		78.7	49 - 122			
Endosulfan Sulfate [2C]	0.416720	0.05	0.01	0.500000		83.3	49 - 122			
Endrin	0.397815	0.05	0.005	0.500000		79.6	59 - 123			
Endrin [2C]	0.420335	0.05	0.005	0.500000		84.1	59 - 123			
Endrin aldehyde	0.397955	0.05	0.003	0.500000		79.6	49 - 140			
Endrin aldehyde [2C]	0.416710	0.05	0.003	0.500000		83.3	49 - 140			
Endrin ketone	0.373215	0.05	0.003	0.500000		74.6	47 - 121			
Endrin ketone [2C]	0.418925	0.05	0.003	0.500000		83.8	47 - 121			
gamma-BHC	0.357170	0.02	0.002	0.500000		71.4	57 - 116			
gamma-BHC [2C]	0.373935	0.02	0.002	0.500000		74.8	57 - 116			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0028 - GCSEMI_PCB/PEST_W (continued)

LCS (B8K0028-BS1) - Continued

Prepared: 11/1/2018 Analyzed: 11/2/2018

gamma-Chlordane	0.385415	0.02	0.002	0.500000		77.1	53 - 120			
gamma-Chlordane [2C]	0.356295	0.02	0.002	0.500000		71.3	53 - 120			
Heptachlor	0.379110	0.02	0.002	0.500000		75.8	55 - 121			
Heptachlor [2C]	0.401925	0.02	0.002	0.500000		80.4	55 - 121			
Heptachlor epoxide	0.373855	0.02	0.002	0.500000		74.8	54 - 113			
Heptachlor epoxide [2C]	0.362745	0.02	0.002	0.500000		72.5	54 - 113			
Methoxychlor	0.443430	0.25	0.008	0.500000		88.7	47 - 135			
Methoxychlor [2C]	0.470865	0.25	0.008	0.500000		94.2	47 - 135			
<i>Surrogate: Decachlorobiphenyl</i>	0.3939			0.500000		78.8	8 - 128			
<i>Surrogate: Decachlorobiphenyl [</i>	0.3103			0.500000		62.1	8 - 128			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.3537			0.500000		70.7	32 - 126			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.3493			0.500000		69.9	32 - 126			

LCS Dup (B8K0028-BSD1)

Prepared: 11/1/2018 Analyzed: 11/2/2018

4,4'-DDD	0.388890	0.05	0.006	0.500000		77.8	56 - 126	2.52	20	
4,4'-DDD [2C]	0.402480	0.05	0.006	0.500000		80.5	56 - 126	0.635	20	
4,4'-DDE	0.418375	0.05	0.005	0.500000		83.7	53 - 127	2.45	20	
4,4'-DDE [2C]	0.365050	0.05	0.005	0.500000		73.0	53 - 127	0.406	20	
4,4'-DDT	0.354820	0.05	0.01	0.500000		71.0	27 - 134	2.86	20	
4,4'-DDT [2C]	0.398195	0.05	0.01	0.500000		79.6	27 - 134	1.05	20	
Aldrin	0.398060	0.02	0.002	0.500000		79.6	53 - 123	2.75	20	
Aldrin [2C]	0.363855	0.02	0.002	0.500000		72.8	53 - 123	0.671	20	
alpha-BHC	0.377015	0.02	0.002	0.500000		75.4	58 - 120	2.01	20	
alpha-BHC [2C]	0.370050	0.02	0.002	0.500000		74.0	58 - 120	1.21	20	
alpha-Chlordane	0.405410	0.02	0.003	0.500000		81.1	55 - 123	2.29	20	
alpha-Chlordane [2C]	0.356800	0.02	0.003	0.500000		71.4	55 - 123	0.0756	20	
beta-BHC	0.371120	0.02	0.002	0.500000		74.2	53 - 116	1.53	20	
beta-BHC [2C]	0.370415	0.02	0.002	0.500000		74.1	53 - 116	0.948	20	
delta-BHC	0.394235	0.02	0.002	0.500000		78.8	27 - 136	2.50	20	
delta-BHC [2C]	0.424475	0.02	0.002	0.500000		84.9	27 - 136	0.443	20	
Dieldrin	0.382085	0.05	0.002	0.500000		76.4	55 - 114	2.61	20	
Dieldrin [2C]	0.361305	0.05	0.002	0.500000		72.3	55 - 114	0.236	20	
Endosulfan I	0.375090	0.02	0.005	0.500000		75.0	52 - 117	3.32	20	
Endosulfan I [2C]	0.342745	0.02	0.005	0.500000		68.5	52 - 117	0.245	20	
Endosulfan II	0.397475	0.05	0.009	0.500000		79.5	53 - 128	3.55	20	
Endosulfan II [2C]	0.400750	0.05	0.009	0.500000		80.2	53 - 128	0.255	20	
Endosulfan sulfate	0.389895	0.05	0.01	0.500000		78.0	49 - 122	0.906	20	
Endosulfan Sulfate [2C]	0.415930	0.05	0.01	0.500000		83.2	49 - 122	0.190	20	
Endrin	0.406560	0.05	0.005	0.500000		81.3	59 - 123	2.17	20	
Endrin [2C]	0.419340	0.05	0.005	0.500000		83.9	59 - 123	0.237	20	
Endrin aldehyde	0.403840	0.05	0.003	0.500000		80.8	49 - 140	1.47	20	



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0028 - GCSEMI_PCB/PEST_W (continued)

LCS Dup (B8K0028-BSD1) - Continued

Prepared: 11/1/2018 Analyzed: 11/2/2018

Endrin aldehyde [2C]	0.416495	0.05	0.003	0.500000	83.3	49 - 140	0.0516	20
Endrin ketone	0.376780	0.05	0.003	0.500000	75.4	47 - 121	0.951	20
Endrin ketone [2C]	0.416535	0.05	0.003	0.500000	83.3	47 - 121	0.572	20
gamma-BHC	0.363865	0.02	0.002	0.500000	72.8	57 - 116	1.86	20
gamma-BHC [2C]	0.370700	0.02	0.002	0.500000	74.1	57 - 116	0.869	20
gamma-Chlordane	0.394520	0.02	0.002	0.500000	78.9	53 - 120	2.33	20
gamma-Chlordane [2C]	0.355810	0.02	0.002	0.500000	71.2	53 - 120	0.136	20
Heptachlor	0.390660	0.02	0.002	0.500000	78.1	55 - 121	3.00	20
Heptachlor [2C]	0.406325	0.02	0.002	0.500000	81.3	55 - 121	1.09	20
Heptachlor epoxide	0.386320	0.02	0.002	0.500000	77.3	54 - 113	3.28	20
Heptachlor epoxide [2C]	0.362865	0.02	0.002	0.500000	72.6	54 - 113	0.0331	20
Methoxychlor	0.420310	0.25	0.008	0.500000	84.1	47 - 135	5.35	20
Methoxychlor [2C]	0.460675	0.25	0.008	0.500000	92.1	47 - 135	2.19	20
<i>Surrogate: Decachlorobiphenyl</i>	0.4287			0.500000	85.7	8 - 128		
<i>Surrogate: Decachlorobiphenyl [</i>	0.3196			0.500000	63.9	8 - 128		
<i>Surrogate: Tetrachloro-m-xylene</i>	0.3607			0.500000	72.1	32 - 126		
<i>Surrogate: Tetrachloro-m-xylene</i>	0.3447			0.500000	68.9	32 - 126		



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Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0267 - GCSEMI_PCB/PEST_S

Blank (B8K0267-BLK1)

Prepared: 11/7/2018 Analyzed: 11/7/2018

4,4'-DDD	ND	2.0	0.07
4,4'-DDD [2C]	ND	2.0	0.07
4,4'-DDE	ND	2.0	0.05
4,4'-DDE [2C]	ND	2.0	0.05
4,4'-DDT	ND	2.0	0.10
4,4'-DDT [2C]	ND	2.0	0.10
Aldrin	ND	1.0	0.04
Aldrin [2C]	ND	1.0	0.04
alpha-BHC	ND	1.0	0.11
alpha-BHC [2C]	ND	1.0	0.11
alpha-Chlordane	ND	1.0	0.12
alpha-Chlordane [2C]	ND	1.0	0.12
beta-BHC	ND	1.0	0.06
beta-BHC [2C]	ND	1.0	0.06
Chlordane	ND	8.5	1.1
Chlordane [2C]	ND	8.5	1.1
delta-BHC	ND	1.0	0.03
delta-BHC [2C]	ND	1.0	0.03
Dieldrin	ND	2.0	0.13
Dieldrin [2C]	ND	2.0	0.13
Endosulfan I	ND	1.0	0.10
Endosulfan I [2C]	ND	1.0	0.10
Endosulfan II	ND	2.0	0.03
Endosulfan II [2C]	ND	2.0	0.03
Endosulfan sulfate	ND	2.0	0.08
Endosulfan Sulfate [2C]	ND	2.0	0.08
Endrin	ND	2.0	0.04
Endrin [2C]	ND	2.0	0.04
Endrin aldehyde	ND	2.0	0.31
Endrin aldehyde [2C]	ND	2.0	0.31
Endrin ketone	ND	2.0	0.13
Endrin ketone [2C]	ND	2.0	0.13
gamma-BHC	ND	1.0	0.10
gamma-BHC [2C]	ND	1.0	0.10
gamma-Chlordane	ND	1.0	0.07
gamma-Chlordane [2C]	ND	1.0	0.07
Heptachlor	ND	1.0	0.05
Heptachlor [2C]	ND	1.0	0.05
Heptachlor epoxide	ND	1.0	0.09
Heptachlor epoxide [2C]	ND	1.0	0.09
Methoxychlor	ND	5.0	0.18



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0267 - GCSEMI_PCB/PEST_S (continued)
Blank (B8K0267-BLK1) - Continued

Prepared: 11/7/2018 Analyzed: 11/7/2018

Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
<i>Surrogate: Decachlorobiphenyl</i>	10.08			16.6667		60.5	43 - 84			
<i>Surrogate: Decachlorobiphenyl [</i>	6.913			16.6667		41.5	43 - 84			S10
<i>Surrogate: Tetrachloro-m-xylene</i>	10.10			16.6667		60.6	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	9.827			16.6667		59.0	54 - 118			

LCS (B8K0267-BS1)

Prepared: 11/7/2018 Analyzed: 11/7/2018

4,4'-DDD	13.7220	2.0	0.07	16.6667		82.3	73 - 110			
4,4'-DDD [2C]	12.5518	2.0	0.07	16.6667		75.3	73 - 110			
4,4'-DDE	13.0270	2.0	0.05	16.6667		78.2	71 - 99			
4,4'-DDE [2C]	12.6520	2.0	0.05	16.6667		75.9	71 - 99			
4,4'-DDT	11.0742	2.0	0.10	16.6667		66.4	51 - 106			
4,4'-DDT [2C]	14.1153	2.0	0.10	16.6667		84.7	51 - 106			
Aldrin	13.5508	1.0	0.04	16.6667		81.3	67 - 95			
Aldrin [2C]	12.3465	1.0	0.04	16.6667		74.1	67 - 95			
alpha-BHC	13.1848	1.0	0.11	16.6667		79.1	67 - 94			
alpha-BHC [2C]	13.4277	1.0	0.11	16.6667		80.6	67 - 94			
alpha-Chlordane	13.9960	1.0	0.12	16.6667		84.0	69 - 99			
alpha-Chlordane [2C]	12.0670	1.0	0.12	16.6667		72.4	69 - 99			
beta-BHC	13.0412	1.0	0.06	16.6667		78.2	67 - 99			
beta-BHC [2C]	13.2955	1.0	0.06	16.6667		79.8	67 - 99			
delta-BHC	15.0027	1.0	0.03	16.6667		90.0	73 - 103			
delta-BHC [2C]	15.0283	1.0	0.03	16.6667		90.2	73 - 103			
Dieldrin	12.8203	2.0	0.13	16.6667		76.9	65 - 93			
Dieldrin [2C]	12.0270	2.0	0.13	16.6667		72.2	65 - 93			
Endosulfan I	12.8695	1.0	0.10	16.6667		77.2	65 - 91			
Endosulfan I [2C]	11.4158	1.0	0.10	16.6667		68.5	65 - 91			
Endosulfan II	13.6202	2.0	0.03	16.6667		81.7	65 - 102			
Endosulfan II [2C]	13.3605	2.0	0.03	16.6667		80.2	65 - 102			
Endosulfan sulfate	12.9597	2.0	0.08	16.6667		77.8	64 - 106			
Endosulfan Sulfate [2C]	13.7685	2.0	0.08	16.6667		82.6	64 - 106			
Endrin	14.2063	2.0	0.04	16.6667		85.2	64 - 111			
Endrin [2C]	14.5677	2.0	0.04	16.6667		87.4	64 - 111			
Endrin aldehyde	13.9193	2.0	0.31	16.6667		83.5	64 - 109			
Endrin aldehyde [2C]	10.8750	2.0	0.31	16.6667		65.2	64 - 109			
Endrin ketone	12.5095	2.0	0.13	16.6667		75.1	57 - 101			
Endrin ketone [2C]	14.5628	2.0	0.13	16.6667		87.4	57 - 101			
gamma-BHC	12.7965	1.0	0.10	16.6667		76.8	65 - 96			
gamma-BHC [2C]	13.2672	1.0	0.10	16.6667		79.6	65 - 96			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0267 - GCSEMI_PCB/PEST_S (continued)
LCS (B8K0267-BS1) - Continued

Prepared: 11/7/2018 Analyzed: 11/7/2018

gamma-Chlordane	13.7468	1.0	0.07	16.6667		82.5	65 - 113			
gamma-Chlordane [2C]	12.1368	1.0	0.07	16.6667		72.8	65 - 113			
Heptachlor	14.0737	1.0	0.05	16.6667		84.4	61 - 96			
Heptachlor [2C]	15.4300	1.0	0.05	16.6667		92.6	61 - 96			
Heptachlor epoxide	13.0587	1.0	0.09	16.6667		78.4	64 - 89			
Heptachlor epoxide [2C]	12.1913	1.0	0.09	16.6667		73.1	64 - 89			
Methoxychlor	16.9900	5.0	0.18	16.6667		102	67 - 109			
Methoxychlor [2C]	15.9062	5.0	0.18	16.6667		95.4	67 - 109			
<i>Surrogate: Decachlorobiphenyl</i>	<i>11.51</i>			<i>16.6667</i>		<i>69.0</i>	<i>43 - 84</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>7.995</i>			<i>16.6667</i>		<i>48.0</i>	<i>43 - 84</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.33</i>			<i>16.6667</i>		<i>80.0</i>	<i>54 - 118</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>13.72</i>			<i>16.6667</i>		<i>82.3</i>	<i>54 - 118</i>			

Duplicate (B8K0267-DUP1)
Source: 1804036-02

Prepared: 11/7/2018 Analyzed: 11/8/2018

4,4'-DDD	ND	2.0	0.07	ND				20		
4,4'-DDD [2C]	ND	2.0	0.07	ND				20		
4,4'-DDE	ND	2.0	0.05	ND				20		
4,4'-DDE [2C]	ND	2.0	0.05	ND				20		
4,4'-DDT	ND	2.0	0.10	ND				20		
4,4'-DDT [2C]	ND	2.0	0.10	ND				20		
Aldrin	ND	1.0	0.04	ND				20		
Aldrin [2C]	ND	1.0	0.04	ND				20		
alpha-BHC	ND	1.0	0.11	ND				20		
alpha-BHC [2C]	ND	1.0	0.11	ND				20		
alpha-Chlordane	ND	1.0	0.12	ND				20		
alpha-Chlordane [2C]	ND	1.0	0.12	ND				20		
beta-BHC	ND	1.0	0.06	ND				20		
beta-BHC [2C]	ND	1.0	0.06	ND				20		
delta-BHC	ND	1.0	0.03	ND				20		
delta-BHC [2C]	ND	1.0	0.03	ND				20		
Dieldrin	ND	2.0	0.13	ND				20		
Dieldrin [2C]	ND	2.0	0.13	ND				20		
Endosulfan I	ND	1.0	0.10	ND				20		
Endosulfan I [2C]	ND	1.0	0.10	ND				20		
Endosulfan II	ND	2.0	0.03	ND				20		
Endosulfan II [2C]	ND	2.0	0.03	ND				20		
Endosulfan sulfate	ND	2.0	0.08	ND				20		
Endosulfan Sulfate [2C]	ND	2.0	0.08	ND				20		
Endrin	ND	2.0	0.04	ND				20		
Endrin [2C]	ND	2.0	0.04	ND				20		
Endrin aldehyde	ND	2.0	0.31	ND				20		



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0267 - GCSEMI_PCB/PEST_S (continued)

Duplicate (B8K0267-DUP1) - Continued **Source: 1804036-02** Prepared: 11/7/2018 Analyzed: 11/8/2018

Endrin aldehyde [2C]	ND	2.0	0.31		ND				20	
Endrin ketone	ND	2.0	0.13		ND				20	
Endrin ketone [2C]	ND	2.0	0.13		ND				20	
gamma-BHC	ND	1.0	0.10		ND				20	
gamma-BHC [2C]	ND	1.0	0.10		ND				20	
gamma-Chlordane	ND	1.0	0.07		ND				20	
gamma-Chlordane [2C]	ND	1.0	0.07		ND				20	
Heptachlor	ND	1.0	0.05		ND				20	
Heptachlor [2C]	ND	1.0	0.05		ND				20	
Heptachlor epoxide	ND	1.0	0.09		ND				20	
Heptachlor epoxide [2C]	ND	1.0	0.09		ND				20	
Methoxychlor	ND	5.0	0.18		ND				20	
Methoxychlor [2C]	ND	5.0	0.18		ND				20	
<i>Surrogate: Decachlorobiphenyl</i>	5.922		16.6667		35.5	43 - 84			\$10	
<i>Surrogate: Decachlorobiphenyl [</i>	4.233		16.6667		25.4	43 - 84			\$10	
<i>Surrogate: Tetrachloro-m-xylene</i>	5.196		16.6667		31.2	54 - 118			\$10	
<i>Surrogate: Tetrachloro-m-xylene</i>	5.227		16.6667		31.4	54 - 118			\$10	

Matrix Spike (B8K0267-MS1) **Source: 1804036-02** Prepared: 11/7/2018 Analyzed: 11/7/2018

4,4'-DDD	8.72733	2.0	0.07	16.6667	ND	52.4	73 - 110		M2
4,4'-DDD [2C]	7.81667	2.0	0.07	16.6667	ND	46.9	73 - 110		M2
4,4'-DDE	8.94250	2.0	0.05	16.6667	ND	53.7	71 - 99		M2
4,4'-DDE [2C]	7.32783	2.0	0.05	16.6667	ND	44.0	71 - 99		M2
4,4'-DDT	6.38683	2.0	0.10	16.6667	ND	38.3	51 - 106		M2
4,4'-DDT [2C]	8.45583	2.0	0.10	16.6667	ND	50.7	51 - 106		M2
Aldrin	8.17433	1.0	0.04	16.6667	ND	49.0	67 - 95		M2
Aldrin [2C]	7.08783	1.0	0.04	16.6667	ND	42.5	67 - 95		M2
alpha-BHC	7.81467	1.0	0.11	16.6667	ND	46.9	67 - 94		M2
alpha-BHC [2C]	7.32033	1.0	0.11	16.6667	ND	43.9	67 - 94		M2
alpha-Chlordane	8.60483	1.0	0.12	16.6667	ND	51.6	69 - 99		M2
alpha-Chlordane [2C]	7.28083	1.0	0.12	16.6667	ND	43.7	69 - 99		M2
beta-BHC	8.22200	1.0	0.06	16.6667	ND	49.3	67 - 99		M2
beta-BHC [2C]	7.58450	1.0	0.06	16.6667	ND	45.5	67 - 99		M2
delta-BHC	9.21833	1.0	0.03	16.6667	ND	55.3	73 - 103		M2
delta-BHC [2C]	8.65950	1.0	0.03	16.6667	ND	52.0	73 - 103		M2
Dieldrin	8.56500	2.0	0.13	16.6667	ND	51.4	65 - 93		M2
Dieldrin [2C]	7.34450	2.0	0.13	16.6667	ND	44.1	65 - 93		M2
Endosulfan I	7.88433	1.0	0.10	16.6667	ND	47.3	65 - 91		M2
Endosulfan I [2C]	7.02517	1.0	0.10	16.6667	ND	42.2	65 - 91		M2
Endosulfan II	8.68383	2.0	0.03	16.6667	ND	52.1	65 - 102		M2
Endosulfan II [2C]	8.12517	2.0	0.03	16.6667	ND	48.8	65 - 102		M2



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0267 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B8K0267-MS1) - Continued		Source: 1804036-02		Prepared: 11/7/2018 Analyzed: 11/7/2018						
Endosulfan sulfate	8.09883	2.0	0.08	16.6667	ND	48.6	64 - 106			M2
Endosulfan Sulfate [2C]	7.99267	2.0	0.08	16.6667	ND	48.0	64 - 106			M2
Endrin	9.00950	2.0	0.04	16.6667	ND	54.1	64 - 111			M2
Endrin [2C]	8.73517	2.0	0.04	16.6667	ND	52.4	64 - 111			M2
Endrin aldehyde	8.72417	2.0	0.31	16.6667	ND	52.3	64 - 109			M2
Endrin aldehyde [2C]	6.44867	2.0	0.31	16.6667	ND	38.7	64 - 109			M2
Endrin ketone	7.49717	2.0	0.13	16.6667	ND	45.0	57 - 101			M2
Endrin ketone [2C]	7.92833	2.0	0.13	16.6667	ND	47.6	57 - 101			M2
gamma-BHC	7.91117	1.0	0.10	16.6667	ND	47.5	65 - 96			M2
gamma-BHC [2C]	7.55667	1.0	0.10	16.6667	ND	45.3	65 - 96			M2
gamma-Chlordane	8.33667	1.0	0.07	16.6667	ND	50.0	65 - 113			M2
gamma-Chlordane [2C]	7.18567	1.0	0.07	16.6667	ND	43.1	65 - 113			M2
Heptachlor	8.76583	1.0	0.05	16.6667	ND	52.6	61 - 96			M2
Heptachlor [2C]	9.52583	1.0	0.05	16.6667	ND	57.2	61 - 96			M2
Heptachlor epoxide	8.04350	1.0	0.09	16.6667	ND	48.3	64 - 89			M2
Heptachlor epoxide [2C]	7.32400	1.0	0.09	16.6667	ND	43.9	64 - 89			M2
Methoxychlor	9.50933	5.0	0.18	16.6667	ND	57.1	67 - 109			M2
Methoxychlor [2C]	9.24900	5.0	0.18	16.6667	ND	55.5	67 - 109			M2
<i>Surrogate: Decachlorobiphenyl</i>	7.635			16.6667		45.8	43 - 84			
<i>Surrogate: Decachlorobiphenyl [</i>	5.022			16.6667		30.1	43 - 84			S10
<i>Surrogate: Tetrachloro-m-xylene</i>	6.940			16.6667		41.6	54 - 118			S10
<i>Surrogate: Tetrachloro-m-xylene</i>	6.477			16.6667		38.9	54 - 118			S10

Matrix Spike Dup (B8K0267-MSD1)		Source: 1804036-02		Prepared: 11/7/2018 Analyzed: 11/7/2018						
4,4'-DDD	8.64067	2.0	0.07	16.6667	ND	51.8	73 - 110	0.998	20	M2
4,4'-DDD [2C]	7.96567	2.0	0.07	16.6667	ND	47.8	73 - 110	1.89	20	M2
4,4'-DDE	8.93733	2.0	0.05	16.6667	ND	53.6	71 - 99	0.0578	20	M2
4,4'-DDE [2C]	7.32033	2.0	0.05	16.6667	ND	43.9	71 - 99	0.102	20	M2
4,4'-DDT	6.37933	2.0	0.10	16.6667	ND	38.3	51 - 106	0.118	20	M2
4,4'-DDT [2C]	8.59050	2.0	0.10	16.6667	ND	51.5	51 - 106	1.58	20	
Aldrin	8.14967	1.0	0.04	16.6667	ND	48.9	67 - 95	0.302	20	M2
Aldrin [2C]	7.23733	1.0	0.04	16.6667	ND	43.4	67 - 95	2.09	20	M2
alpha-BHC	7.81283	1.0	0.11	16.6667	ND	46.9	67 - 94	0.0235	20	M2
alpha-BHC [2C]	7.65933	1.0	0.11	16.6667	ND	46.0	67 - 94	4.53	20	M2
alpha-Chlordane	8.54083	1.0	0.12	16.6667	ND	51.2	69 - 99	0.747	20	M2
alpha-Chlordane [2C]	7.28867	1.0	0.12	16.6667	ND	43.7	69 - 99	0.108	20	M2
beta-BHC	8.17733	1.0	0.06	16.6667	ND	49.1	67 - 99	0.545	20	M2
beta-BHC [2C]	7.99417	1.0	0.06	16.6667	ND	48.0	67 - 99	5.26	20	M2
delta-BHC	9.20967	1.0	0.03	16.6667	ND	55.3	73 - 103	0.0941	20	M2
delta-BHC [2C]	8.95683	1.0	0.03	16.6667	ND	53.7	73 - 103	3.38	20	M2
Dieldrin	8.54717	2.0	0.13	16.6667	ND	51.3	65 - 93	0.208	20	M2



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B8K0267 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B8K0267-MSD1) - Continued										
Source: 1804036-02										
Dieldrin [2C]	7.40733	2.0	0.13	16.6667	ND	44.4	65 - 93	0.852	20	M2
Endosulfan I	7.89000	1.0	0.10	16.6667	ND	47.3	65 - 91	0.0718	20	M2
Endosulfan I [2C]	6.91200	1.0	0.10	16.6667	ND	41.5	65 - 91	1.62	20	M2
Endosulfan II	8.65750	2.0	0.03	16.6667	ND	51.9	65 - 102	0.304	20	M2
Endosulfan II [2C]	8.26267	2.0	0.03	16.6667	ND	49.6	65 - 102	1.68	20	M2
Endosulfan sulfate	8.08733	2.0	0.08	16.6667	ND	48.5	64 - 106	0.142	20	M2
Endosulfan Sulfate [2C]	8.18900	2.0	0.08	16.6667	ND	49.1	64 - 106	2.43	20	M2
Endrin	8.99100	2.0	0.04	16.6667	ND	53.9	64 - 111	0.206	20	M2
Endrin [2C]	8.89517	2.0	0.04	16.6667	ND	53.4	64 - 111	1.82	20	M2
Endrin aldehyde	8.69300	2.0	0.31	16.6667	ND	52.2	64 - 109	0.358	20	M2
Endrin aldehyde [2C]	6.56417	2.0	0.31	16.6667	ND	39.4	64 - 109	1.78	20	M2
Endrin ketone	7.47467	2.0	0.13	16.6667	ND	44.8	57 - 101	0.301	20	M2
Endrin ketone [2C]	8.03017	2.0	0.13	16.6667	ND	48.2	57 - 101	1.28	20	M2
gamma-BHC	7.90667	1.0	0.10	16.6667	ND	47.4	65 - 96	0.0569	20	M2
gamma-BHC [2C]	7.86050	1.0	0.10	16.6667	ND	47.2	65 - 96	3.94	20	M2
gamma-Chlordane	8.25967	1.0	0.07	16.6667	ND	49.6	65 - 113	0.928	20	M2
gamma-Chlordane [2C]	7.19233	1.0	0.07	16.6667	ND	43.2	65 - 113	0.0927	20	M2
Heptachlor	8.76917	1.0	0.05	16.6667	ND	52.6	61 - 96	0.0380	20	M2
Heptachlor [2C]	10.1040	1.0	0.05	16.6667	ND	60.6	61 - 96	5.89	20	M2
Heptachlor epoxide	7.92700	1.0	0.09	16.6667	ND	47.6	64 - 89	1.46	20	M2
Heptachlor epoxide [2C]	7.40967	1.0	0.09	16.6667	ND	44.5	64 - 89	1.16	20	M2
Methoxychlor	9.51650	5.0	0.18	16.6667	ND	57.1	67 - 109	0.0753	20	M2
Methoxychlor [2C]	9.92483	5.0	0.18	16.6667	ND	59.5	67 - 109	7.05	20	M2
Surrogate: Decachlorobiphenyl	6.883			16.6667		41.3	43 - 84			S10
Surrogate: Decachlorobiphenyl /	5.404			16.6667		32.4	43 - 84			S10
Surrogate: Tetrachloro-m-xylene	7.448			16.6667		44.7	54 - 118			S10
Surrogate: Tetrachloro-m-xylene	7.204			16.6667		43.2	54 - 118			S10



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0014 - GCSEMI_PCB/PEST_S
Blank (B8K0014-BLK2)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Aroclor 1016	ND	16	4.6
Aroclor 1221	ND	16	4.6
Aroclor 1232	ND	16	4.6
Aroclor 1242	ND	16	4.6
Aroclor 1248	ND	16	4.6
Aroclor 1254	ND	16	4.6
Aroclor 1260	ND	16	4.6
Aroclor 1262	ND	16	4.6
Aroclor 1268	ND	16	4.6

Surrogate: Decachlorobiphenyl	9.502	16.6667	57.0	43 - 84
Surrogate: Tetrachloro-m-xylene	11.43	16.6667	68.6	54 - 118

LCS (B8K0014-BS2)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Aroclor 1016	120.522	16	4.6	166.667	72.3	70 - 92
Aroclor 1260	135.970	16	4.6	166.667	81.6	62 - 103
Surrogate: Decachlorobiphenyl	9.636			16.6667	57.8	43 - 84
Surrogate: Tetrachloro-m-xylene	11.59			16.6667	69.5	54 - 118

Duplicate (B8K0014-DUP2)
Source: 1804036-82

Prepared: 11/1/2018 Analyzed: 11/1/2018

Aroclor 1016	ND	16	4.6	ND		20
Aroclor 1260	ND	16	4.6	ND		20
Surrogate: Decachlorobiphenyl	8.840			16.6667	53.0	43 - 84
Surrogate: Tetrachloro-m-xylene	12.93			16.6667	77.6	54 - 118

Matrix Spike (B8K0014-MS2)
Source: 1804036-63

Prepared: 11/1/2018 Analyzed: 11/1/2018

Aroclor 1016	151.477	16	4.6	166.667	ND	90.9	70 - 92
Aroclor 1260	185.228	16	4.6	166.667	ND	111	62 - 103
Surrogate: Decachlorobiphenyl	15.81			16.6667		94.9	43 - 84
Surrogate: Tetrachloro-m-xylene	17.46			16.6667		105	54 - 118

Matrix Spike Dup (B8K0014-MSD2)
Source: 1804036-63

Prepared: 11/1/2018 Analyzed: 11/1/2018

Aroclor 1016	149.859	16	4.6	166.667	ND	89.9	70 - 92	1.07	20
Aroclor 1260	181.232	16	4.6	166.667	ND	109	62 - 103	2.18	20
Surrogate: Decachlorobiphenyl	16.09			16.6667		96.6	43 - 84		S10
Surrogate: Tetrachloro-m-xylene	16.94			16.6667		102	54 - 118		



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0028 - GCSEMI_PCB/PEST_W
Blank (B8K0028-BLK2)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Aroclor 1016	ND	0.50	0.04
Aroclor 1221	ND	1.0	0.04
Aroclor 1232	ND	0.50	0.04
Aroclor 1242	ND	0.50	0.04
Aroclor 1248	ND	0.50	0.04
Aroclor 1254	ND	0.50	0.04
Aroclor 1260	ND	0.50	0.04
Aroclor 1262	ND	0.50	0.04
Aroclor 1268	ND	0.50	0.04

Surrogate: Decachlorobiphenyl

0.3350	0.500000	67.0	8 - 128
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Surrogate: Tetrachloro-m-xylene

0.4748	0.500000	95.0	32 - 126
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LCS (B8K0028-BS2)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Aroclor 1016	4.01489	0.50	0.04	5.00000	80.3	72 - 107
Aroclor 1260	4.70490	0.50	0.04	5.00000	94.1	65 - 124

Surrogate: Decachlorobiphenyl

0.3939	0.500000	78.8	8 - 128
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Surrogate: Tetrachloro-m-xylene

0.4774	0.500000	95.5	32 - 126
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LCS Dup (B8K0028-BSD2)

Prepared: 11/1/2018 Analyzed: 11/1/2018

Aroclor 1016	4.05726	0.50	0.04	5.00000	81.1	72 - 107	1.05	20
Aroclor 1260	4.67590	0.50	0.04	5.00000	93.5	65 - 124	0.618	20

Surrogate: Decachlorobiphenyl

0.3987	0.500000	79.7	8 - 128
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Surrogate: Tetrachloro-m-xylene

0.4732	0.500000	94.6	32 - 126
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Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/09/2018

Notes and Definitions

S4	Surrogate was diluted out.
S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R2	RPD value outside acceptance criteria due to possible matrix interference.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.



ADVANCED TECHNOLOGY

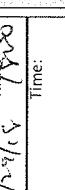
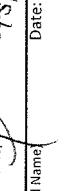
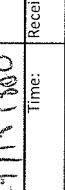
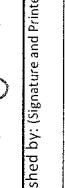
LABORATORIES
33275 Walnut Ave., Signal Hill, CA 90755
tel: (562) 989-4045 • Fax: (562) 989-404

CHAIN OF CUSTODY RECORD

Page 1 of 11

Company: Leighton Consulting

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-230-1421	
SEND REPORT TO:		Attn: Ross Surrency		Email: rsurrency@leightongroup.com		SEND INVOICE TO:		<input type="checkbox"/> same as SEND REPORT TO		Fax: accepayable@leightongroup.com	
Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		Attn: Accounts Payable		Email: accepayable@leightongroup.com			
Project Name: LAUSD - Colfax ES		Quote #: D18J041		Special Instructions/Comments:		Requested Analysis		Sample Matrix		Container	
Project No.: 11640.008		PO #:		Sampler: J. Bushong		8081 (Organochlorine Pesticides)		Select Solid Matrix		Soil	
TFFE		Laboratory ID (For Lab Use Only)		Sample ID / Location		Date	Time	Select Custom Matrix		Remarks	
1	1804036-C1	PER1-0.5		10/27/18	0738	X	X	Select Non-aqueous Matrix		Preservative: 1-HCl, 2-HNO3, 3-H2SO4, 4-HC-S2O4/HgCl2, 5-HNO3, 7-HNO3, 7-H2SO4, 8-Sel. Sulfide, 9-Merist, 10-PAP, 11-NH4OH, 12-Na2S2O3	
2	-02	PER1-1.5			0739			Select Water Matrix		Material: 1-Glass; 2-Polymer; 3-Metal	
3	-03	PER1-3.0			0741			TPH-DRO, DRO (C13-C40) 8015		Type: 1=tube; 2=VOA; 3=lets; 4=Print	
4	-04	PER2-0.5			0745			Mercury 7411A		Preservative: 1-HCl, 2-HNO3, 3-H2SO4	
5	-05	PER2-1.5			0747			Arsenic 6020		Level IV	
6	-06	PER2-3.0			0750			Lead 6010B			
7	-07	PER3-0.5			0751			Select Analysis			
8	-08	PER3-1.5			0753			Select Analysis			
9	-09	PER3-3.0			0756			8015 (GRO)			
10	-10	DUP-1			740			8082 (PCBs)			
Tumaround Time (TAT)											
40 LD											
Request for Reanalysis/Reprocessing Report: \$35 per reprocessed EDD.											
Regenerated/reformatted report: \$35 per reprocessed EDD.											
10. Rush TPL/STLC samples: add 2 days to analysis TAT for extraction procedure.											
11. Unanalyzed samples will incur a disposal fee of \$7 per sample.											
12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.											
1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.											
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.											
3. The following turnaround times apply:											
TAT = 0 : 30% Surcharge : SAME BUSINESS DAY received by 9:00 AM											
TAT = 1 : 100% Surcharge : NEXT BUSINESS DAY (COB 5:00 PM)											
TAT = 2 : 150% Surcharge : 2ND BUSINESS DAY (COB 5:00 PM)											
TAT = 3 : 200% Surcharge : 3RD BUSINESS DAY (COB 5:00 PM)											
TAT = 4 : 200% Surcharge : 4TH BUSINESS DAY (COB 5:00 PM)											
TAT = 5 : NO SURCHARGE : 5TH BUSINESS DAY (COB 5:00 PM)											
4. Weekend, holiday after-work--- ask for quote.											
5. Subcontract TAT = 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective											
to the subcontract lab --- ask for quote.											
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days from receipt of samples.											
7. Electronic records maintained for live 5 years after receipt of samples.											
8. Hard copy reports will be disposed of after 45 calendar days from report date.											
9. Storage and Report Fees:											
Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$25/month for extended storage or if requested.											
Air samples: Complimentary storage for ten (10) calendar days from receipt of samples.											
Hard copy and regenerated reports/EDDs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report.											
As the authorized agent of the company above, I hereby purchase laboratory services from AIL as shown above and hereby guarantee payment as quoted.											
Signature: 											
Printed Name: 											
Date: 10/28/18 Time: 1048 Received by: 											
Date: 10/29/18 Time: 1040 Received by: 											
Date: 10/29/18 Time: 1040 Received by: 											
Date: 10/29/18 Time: 1040 Received by: 											
Date: 10/29/18 Time: 1040 Received by: 											
Date: 10/29/18 Time: 1040 Received by: 											
Date: 10/29/18 Time: 1040 Received by: 											
Date: 10/29/18 Time: 1040 Received by: 											



ADVANCED A TECHNOLOGY

L A B O R A T O R I E S
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 11

Instruction: Complete all shaded areas

PROJECT SAMPLES							
Company:	Leighton Consulting						
Attn:	Ross Surrency						
Company:	Leighton Consulting						
Address:	17781 Cowan						
City:	Irvine	State: CA	Zip: 92614	City:	Irvine	State: CA	Zip: 92614
Project Name:	Quote #: D18J041						
Project No.:	11640-008						
Sampler:	<i>J. Bollman</i>						
ITEM	Laboratory ID (For Lab Use Only)	Sample Description					
		Sample ID / Location					
Date	Time						
1	1804036 - 11	PER4-0.5	10/21/18	805	X		
2	-12	PER4-1.5		803			
3	-13	PER4-3.0		810			
4	-14	PER5-0.5		813			
5	-15	PER5-1.5		820			
6	-16	PER5-3.0		824			
7	-17	PER6-0.5		827			
8	-18	PER6-1.5		829			
9	-19	PER6-3.0		832			

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
3. The following turnaround time conditions apply:
 - TAT = 0 : 30% Surcharge SAME BUSINESS DAY if received by 9:00 AM
 - TAT = 1 : 10% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
 - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
 - TAT = 3 : 30% surcharge 3RD BUSINESS DAY (COB 5:00 PM)
 - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
 - TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
4. Weekend, holiday after-hours work -- ask for quote.
5. Subcontract TAT is 10-15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.
6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2 sample/month if extended storage or hold is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20 sample/week if extended storage is requested.
 - Hard copy and request reports/EDOs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD.
10. Rush TCP/STLC samples: add 2 days to analysis/TAT for extraction procedure.
11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
12. The laboratory will randomly select from all QC samples received to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date:	Time:	Date:	Time:
<i>[Signature]</i>	<i>[Date]</i>	<i>[Signature]</i>	<i>[Date]</i>	<i>[Time]</i>	<i>[Date]</i>	<i>[Time]</i>
Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date:	Time:	Date:	Time:
<i>[Signature]</i>	<i>[Date]</i>	<i>[Signature]</i>	<i>[Date]</i>	<i>[Time]</i>	<i>[Date]</i>	<i>[Time]</i>
Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date:	Time:	Date:	Time:
<i>[Signature]</i>	<i>[Date]</i>	<i>[Signature]</i>	<i>[Date]</i>	<i>[Time]</i>	<i>[Date]</i>	<i>[Time]</i>

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payments as quoted.

[Signature]

Printed Name: *[Signature]*

Signature: *[Signature]*

Page 161 of 174



ADVANCED TECHNOLOGY

L A B O R A T O R Y S
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 4

Instruction: Complete all shaded areas.

Company: Leighton Consulting Address: 17781 Cowan City: Irvine State: CA Zip: 92614

SEND REPORT TO:

Email: raurcoy@leightongroup.com

Attn: Ross Surrency

C U S T O M E R

Accounts Payable

SEND INVOICE TO:

Project Name: LAUSD - Colfax ES Project No.: 11640.008 Sampler: *J Bobbiwash*

Special Instructions/Comments:

TE M P L E S

Sample Description

T E R M S

Sample ID / Location

Date

Time

LAUSD - Colfax ES

PO #:

D18J041

F O R M

8081 (Organochlorine Pesticides)

8082 (PCBs)

8015 (GRC)

8041 (Chlorophenols)

8042 (PCBs)

8043 (GRC)

8044 (Chlorophenols)

8045 (GRC)

8046 (Chlorophenols)

8047 (GRC)

8048 (Chlorophenols)

8049 (GRC)

8050 (Chlorophenols)

8051 (GRC)

8052 (Chlorophenols)

8053 (GRC)

8054 (Chlorophenols)

8055 (GRC)

8056 (Chlorophenols)

8057 (GRC)

8058 (Chlorophenols)

8059 (GRC)

8060 (Chlorophenols)

8061 (GRC)

8062 (Chlorophenols)

8063 (GRC)

8064 (Chlorophenols)

8065 (GRC)

8066 (Chlorophenols)

8067 (GRC)

8068 (Chlorophenols)

8069 (GRC)

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8100 (Chlorophenols)

8101 (GRC)

8102 (Chlorophenols)

8103 (GRC)

8104 (Chlorophenols)

8105 (GRC)

8106 (Chlorophenols)

8107 (GRC)

8108 (Chlorophenols)

8109 (GRC)

8110 (Chlorophenols)

8111 (GRC)

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8114 (Chlorophenols)

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8117 (GRC)

8118 (Chlorophenols)

8119 (GRC)

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8121 (GRC)

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8294 (Chlorophenols)

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8296 (Chlorophenols)

8297 (GRC)

8298 (Chlorophenols)

8299 (GRC)

8200 (Chlorophenols)

8201 (GRC)

8202 (Chlorophenols)

8203 (GRC)

8204 (Chlorophenols)

8205 (GRC)

8206 (Chlorophenols)

8207 (GRC)

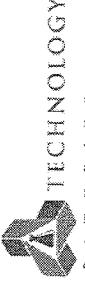
8208 (Chlorophenols)

8209 (GRC)

8210 (Chlorophenols)

8211 (GRC)

8212 (



ADVANCED TECHNOLOGY

L A B O R A T O R I E S
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-404

CHAIN OF CUSTODY RECORD

L A B O R A T O R I E S
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-404

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-230-1421	
SEND REPORT TO:		SEND INVOICE TO:						<input type="checkbox"/> same as SEND REPORT TO			
Attn:	Ross Surrency	Email:	Attn:	Accounts Payable		Email:		Email: accppayable@leightongroup.com		EDD	QA/QC
Company:	Leighton Consulting		Company:	Leighton Group						<input type="checkbox"/> Excel	<input type="checkbox"/> Routine
Address:	17781 Cowan		Address:	17781 Cowan						<input type="checkbox"/> EDF	<input type="checkbox"/> Caltrans
City:	Irvine	State: CA	Zip: 92614	City: Irvine		State: CA		Zip: 92614		<input type="checkbox"/> Equis	<input type="checkbox"/> Legal
Comments or special areas.											
CUSTOME R											

- | | | | |
|---|--|--|--|
| 1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM. | to the subcontract lab ... ask for quote. | | |
| 2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM. | 6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples. | | |
| 3. The following turn-around time conditions apply: | 7. Electronic records maintained for the (5) years from report date. | | |
| TAT = 0 - 300% Surcharge: SAME BUSINESS DAY if received by 9:00 AM | 8. Hard copy reports will be disposed of after 45 calendar days from report date. | | |
| TAT = 1 - 100% Surcharge: NEXT BUSINESS DAY (COB 5:00 PM) | 9. Storage and Report Fees: | | |
| TAT = 2 - 150% Surcharge: 2nd BUSINESS DAY (COB 5:00 PM) | · Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$25/sample/month if extended storage or hold is requested. | | |
| TAT = 3 - 300% Surcharge: 3rd BUSINESS DAY (COB 5:00 PM) | · Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested. | | |
| TAT = 4 - 300% Surcharge: 4th BUSINESS DAY (COB 5:00 PM) | · Hard copy and electronic reports: \$17.50 per hard copy report requested; \$50.00 per hard copy and electronic report/EDD's. | | |
| TAT = 5 - NO SURCHARGE: 5th BUSINESS DAY (COB 5:00 PM) | | | |
| 4. Weekends, holidays, after-hours work --- ask for quote. | | | |
| 5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TAT's will incur a surcharge respective | | | |
| <p>Re-Open/Issued by: (Signature and Printed Name) <u>John W. Boughus</u> Date: <u>10/29/13</u> Time: <u>10:20 AM</u></p> <p>Reinquished by: (Signature and Printed Name) <u>J.W.B.</u> Date: <u>10/29/13</u> Time: <u>10:20 AM</u></p> <p>Reinquished by: (Signature and Printed Name) <u>J.W.B.</u> Date: <u>10/29/13</u> Time: <u>10:20 AM</u></p> | | | |

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ADVANCED TECHNOLOGY

L A B O R A T O R I E S
33275 Walnut Ave., Signal Hill, CA 90755
tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 11

Leighton Consulting

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421	
SEND REPORT TO:		Attn: Ross Surrency		Email: rsurrency@leightongroup.com		SEND INVOICE TO:		Attn: Accounts Payable		Fax: same as SEND REPORT TO	
Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Email: acpayable@leightongroup.com	
Project Name: LAUSD - Colfax ES		Quote #: D18J041		Special Instructions/Comments:		Requested Analysis		Sample Matrix		Container	
Project No.: 11640.008		PO #:		ITEM		Sample Description		Date		Time	
Sampler: <i>D. Bologusky</i>				1	180403b-39	Sample ID / Location PER13-0.5	10/21/8	1011	X		
				2	-40	PER13-1.5	1	1013			
				3	-41	PER13-3.0		1014			
				4	-42	PER14-0.5		1017			
				5	-43	PER14-1.5		1019			
				6	-44	PER14-3.0		1020			
				7	-45	PER15-0.5		1024			
				8	-46	PER15-1.5		1027			
				9	-47	PER15-3.0		1030			
REMARKS											

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.	to the subcontractor lab ... ask for quote.		
2. Samples submitted after 3:00 PM are considered received the following business day at 8:00 AM.	6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.		
3. The following turnaround time conditions apply:	7. Electronic records maintained for five (5) years from report date.		
TAT = 1 - 300% Surcharge SAME BUSINESS DAY received by 9:00 AM	8. Hard copy reports will be disposed of after 45 calendar days from report date.		
TAT = 1 - 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)	9. Storage and Report Fees:		
TAT = 2 - 50% Surcharge 3rd BUSINESS DAY (COB 5:00 PM)	Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2.50 sample/month if extended storage or hold is requested.		
TAT = 3 - 30% Surcharge 3rd BUSINESS DAY (COB 5:00 PM)	Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$2.00 sample/week if extended storage is requested.		
TAT = 4 - 20% Surcharge 4th BUSINESS DAY (COB 5:00 PM)	- Hard copy and reprinted reports /EDDS: \$17.50 per hard copy report requested; \$50.00 per		
TAT = 5 - 10% Surcharge 5th BUSINESS DAY (COB 5:00 PM)	- Hard copy and reprinted reports /EDDS: \$17.50 per hard copy report requested; \$50.00 per		
4. Weekend, holiday, after hours work ... ask for quote.			
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TAT's will incur a surcharge respective			
REQUOTED BY: (Signature and Printed Name)	Date: <u>10/29/13</u>	Time: <u>10:18 (13)</u>	Received by: (Signature and Printed Name)
RETRIVED BY: (Signature and Printed Name)	Date: <u>10/29/13</u>	Time: <u>10:18 (13)</u>	Received by: (Signature and Printed Name)
REFLINGUISHED BY: (Signature and Printed Name)	Date: <u>10/29/13</u>	Time: <u>10:18 (13)</u>	Received by: (Signature and Printed Name)



ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

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Instruction: Complete all shaded areas.

CUSTODIAL INFORMATION		PROJECT NUMBER		SAMPLES		PROJECT COMMENTS		REQUESTED ANALYSIS		SAMPLE MATRIX		CONTAINER		REMARKS																																			
Company:	Leighton Consulting	Address:	17781 Cowan	City:	Irvine	State:	CA	City:	Irvine	State:	CA	State:	CA	Zip:	92614	Address:	17781 Cowan	City:	Irvine	State:	CA	Zip:	92614	Address:	17781 Cowan	City:	Irvine	State:	CA	Zip:	92614																		
Method of Transport		Condition Upon Receipt		Condition		Y N		Condition		Y N		Condition		Y N																																			
<input type="checkbox"/> Client	<input checked="" type="checkbox"/> ATL	<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	<input type="checkbox"/> 1. CHILLED	<input type="checkbox"/> 2. HEADSPACE (VNA)	<input type="checkbox"/> 3. CONTAINER INTEGRITY	<input type="checkbox"/> 4. SEALED	<input type="checkbox"/> 5. # OF SAMPLES MATCH COC	<input type="checkbox"/> 6. PREFRESHED	<input type="checkbox"/> 7. COOLER TEMP. <= 4°C	<input type="checkbox"/> 8. OTHER: _____	<input type="checkbox"/> 9. MATERIAL: 1=Glass, 2=Plastic, 3=Metal	<input type="checkbox"/> 10. PRESERVATIVE: 1=HCl, 2=NaOH, 7=Na2SO4, 8=HNO3, 9=H2SO4	<input type="checkbox"/> 11. SIZE/WEIGHT: 1=1LITER, 4=100G	<input type="checkbox"/> 12. ROUTINE	<input type="checkbox"/> 13. LEGAL	<input type="checkbox"/> 14. RWQCB	<input type="checkbox"/> 15. LEVEL IV																															
SEND REPORT TO:		Attn: Accounts Payable		Email: rsweeney@leightongroup.com		SEND INVOICE TO:		Email: acipayable@leightongroup.com		same as SEND REPORT TO		EDD		QA/QC																																			
Attn:	Ross Sweeney	PO #:	11640.0008	Sample#:	J. Bobbylett	PO #:		PO #:		PO #:		PO #:		PO #:		PO #:		PO #:		PO #:		PO #:		PO #:		PO #:																							
Project Name:		Quote #: D18J041		Special Instructions/Comments:		Date:		Time:		Date:		Time:		Date:		Time:		Date:		Time:		Date:		Time:		Date:		Time:																					
LAUSD - Colfax ES						10/27/18		10:51		10/27/18		10:53		10/27/18		10:55		10/27/18		10:57		10/27/18		11:00		10/27/18		11:01		10/27/18		11:04		10/27/18		11:05		10/27/18		11:07									
Project No.:																																																	
Sample#:																																																	
Sample Description																																																	
ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time															
1	180403Lc ~48	PER 6-0.5			2	-44	PER 6-1.5			3	-50	PER 6-3.0			4	-51	PER 7-0.5			5	-52	PER 7-1.5			6	-53	PER 7-3.0			7	-54	PER 18-0.5			8	-55	PER 18-1.5			9	-56	PER 18-3.0			10				

TERMS		TERMS		TERMS		TERMS	
RElinquished by:	(Signature and Printed Name)	Date:	Time:	Received By:	(Signature and Printed Name)	Date:	Time:
Relinquished by:	John Doe	10/29/18	10:00 AM	Received By:	John Doe	10/29/18	10:00 AM
Relinquished by:	John Doe	10/29/18	10:00 AM	Received By:	John Doe	10/29/18	10:00 AM
Relinquished by:	John Doe	10/29/18	10:00 AM	Received By:	John Doe	10/29/18	10:00 AM

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
 2. Samples submitted AFTER 5:00 PM are considered received the following business day at 8:00 AM.
 3. The following turn-around time conditions apply:
 a. Standard Turn-around time: SAME BUSINESS DAY if received by 9:00 AM
 b. TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
 c. TAT = 2 : 150% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
 d. TAT = 4 : 200% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
 e. TAT = 5 : NO SURCHARGE DAY (COB 5:00 PM)
 4. Weekend holiday after-hours work -- ask for quote.
 5. A contract TAT is 10-15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab -- ask for quote.

6. Liquid & solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
 7. Electronic records maintained for five (5) years from report date.
 8. Hard copy reports will be disposed of after 45 calendar days from report date.
 9. Storage & Hold fees:
 a. Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2.00 sample/month if extended storage or hold is requested.
 b. Air samples: Complimentary storage for ten (10) calendar days from receipt of samples;
 \$20 sample/year if extended storage is requested.
 c. Hard copy regenerated reports/EDOs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$55 per reprocessed EDD.

10. Rush TCEP/STIC samples: add 1 day to analysis for extraction procedure.
 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
 12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Signature _____
Printed Name _____



ADVANCED TECHNOLOGY

LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 11

Instruction: Complete all shaded areas.

		For laboratory Use Only	
		ATLCOC Ver.:20180321	
Method of Transport		Sample Conditions Upon Receipt	
<input type="checkbox"/> Client	<input checked="" type="checkbox"/> ATL	<input type="checkbox"/> 1. CHILLED	<input type="checkbox"/> Y Condition
<input type="checkbox"/> FedEx	<input type="checkbox"/> Contac	<input type="checkbox"/> 2. HEADSPACE (VDA)	<input type="checkbox"/> N Condition
<input type="checkbox"/> GSO	<input type="checkbox"/>	<input type="checkbox"/> 3. CONTAINER INTEGRITY	<input type="checkbox"/> 5 # OF SAMPLES/MATCH/COC
<input type="checkbox"/> Other: _____		<input type="checkbox"/> 6. PRESERVED	<input type="checkbox"/> 7. COOLER TEMP. req'd
		<input type="checkbox"/> 4. SEALED	<input type="checkbox"/> 8. 3.8, 4.0, 10°C

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-230-1421	
Attn: Ross Sturency		SEND REPORT TO:		Attn: rssturency@leightongroup.com		SEND INVOICE TO:		Email: acctrivable@leightongroup.com		same as SEND REPORT TO	
Company: Leighton Consulting		Project Name: LAUSD - Colfax ES		Attn: Leighton Group		Address: 17781 Cowan		City: Irvine		State: CA Zip: 92614	
Address: 17781 Cowan		City: Irvine		State: CA Zip: 92614		City: Irvine		State: CA		Zip: 92614	
Project Name: LAUSD - Colfax ES		Quote #: D18J041		Special Instructions/Comments: <i>J. Bowers</i>		Requested Analysis		Sample Matrix		Container	
Project No.: 11640-008	Sampler: <i>J. Bowers</i>	PO #:	8081 (Organochlorine Pesticides)	8082 (PCBs)	8015 (GRD)	TPH-DRO, ORO (C13-C40) 8015	Mercuony 7471A	Enter Custom Matrix	Quantity	Remarks	
Item		Laboratory ID (For Lab Use Only)	Sample ID / Location		Date	Time					
1	1804036-57	PER 9-0.5	10/27/18 11:10		X	X					
2	-58	PER 9-1.5	11/1		X	X					
3	-59	PER 19-3.0	11/12								
4	-60	PER 20-0.5	11/15								
5	-61	PER 20-1.5	11/17								
6	-62	PER 20-3.0	11/19								
7	-63	PER 21-0.5	11/23								
8	-64	PER 21-1.5	11/24								
9	-65	PER 21-3.0	11/25								
10	-66	DUP 3	11/30								

TERMS		PROJECT SAMPLES		CUSTOMER	
Relinquished by: (Signature and Printed Name)	Date: 10/24/18	Received by: (Signature and Printed Name)	Date: 10/24/18	Time: 10:00 AM	As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.
Relinquished by: (Signature and Printed Name)	Date: 10/24/18	Received by: (Signature and Printed Name)	Date: 10/24/18	Time: 10:00 AM	
Relinquished by: (Signature and Printed Name)	Date: 10/24/18	Received by: (Signature and Printed Name)	Date: 10/24/18	Time: 10:00 AM	

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
 2. Samples submitted AFTER 5:00 PM are considered received the following business day at 8:00 AM.
 3. The following turnaround time conditions apply:
 a. SAME BUSINESS DAY if received by 9:00 AM
 TAT = 1 - 100% Surcharge
 TAT = 2 - 50% Surcharge
 TAT = 3 - 30% Surcharge 3rd BUSINESS DAY (COB 5:00 PM)
 TAT = 4 - 20% Surcharge 4th BUSINESS DAY (COB 5:00 PM)
 TAT = 5 - NO SURCHARGE
 4. Weekend, holiday, after-hours work — ask for quote.
 5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab -- ask for quote.

6. Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples will be disposed of after 14 calendar days after receipt of samples.
 7. Electronic records maintained for five (5) years from report date.
 8. Hard copy reports will be disposed of after 45 calendar days from report date.
 9. Storage and Report Fees:
 - Liquid & solid samples: \$2/samp/month if extended storage or holds is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples;
 - S20 samples: \$20 per sample if extended storage is requested.
 10. Rush (ICP/STIC) samples: add 2 days to analysis TAT for extraction procedure.
 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
 12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike Duplicate (MS/MD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.



ADVANCED LABORATORIES TECHNOLOGY
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

L A B O R A T O R I E S
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CUSTO M ER						PROJEC T SAMPL ES					
Company: Leighton Consulting			Address: 17781 Cowan			City: Irvine			State: CA Zip: 92614		
Attn: Ross Surrency			Attn: rsurrency@leightongroup.com			SEND INVOICE TO:			Fax: 949-250-1421		
Company: Leighton Consulting			Company: Leighton Group			Attn: Leighton Group			Email: accpayable@leightongroup.com		
Address: 17781 Cowan			Address: 17781 Cowan			Attn: 17781 Cowan			Attn: 17781 Cowan		
City: Irvine			State: CA Zip: 92614			City: Irvine			State: CA Zip: 92614		
Project Name: LAUSD - Colfax ES						Quote #: D18J041					
Project No.: 11640.008						PO #:					
Sampler: J. Bobowicz											
Sample Description											
ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location		Date	Time	Requested Analysis		Sample Matrix		Container	
1	1804034-67	PER22-0.5		10/27/18	11:33	8081 (Organochlorine Pesticides)		Soil		Quanitity	
2	-68	PER22-1.5			11:36	8015 (GRO)		Select Solid Matrix		Turnaround Time (TAT)	
3	-69	PER22-3.0				TPH-DRO, ORO (C13-C40) 8015		Select Water Matrix		9/26/14	
4	-70	PER23-0.5				Mercury 7471A		Select Non-aqueous Matrix		Tel: 949-250-1421	
5	-71	PER23-1.5				Arsenic 6020		Enter Custom Matrix		Fax: 949-250-1421	
6	-72	PER23-3.0				Lead 6010B		Preservative: 1-HCl, 2-HNO3, 3-H2SO4,		Email: accpayable@leightongroup.com	
7	-73	PER24-0.5				Select Analyses		Material: 1=Glass, 2=Plastic, 3=Metal		Attn: Leighton Group	
8	-74	PER24-1.5				Select Analyses		Type: 1=Liter, 2=Quart, 3=Liter, 4=Print		Attn: 17781 Cowan	
9	-75	PER24-3.0				Select Analyses		Size: 6-Gelatin, 7=Canister		Attn: 17781 Cowan	
10						8082 (PCBs)		Temp: 1=4°C, 2=RT, 3=40°C		Attn: 17781 Cowan	
Remarks											
Relinquished by: (Signature and Printed Name) Date: 10/27/18 Time: 11:36						Received by: (Signature and Printed Name) Date: 10/27/18 Time: 11:36					
Relinquished by: (Signature and Printed Name) Date: 10/27/18 Time: 11:36						Received by: (Signature and Printed Name) Date: 10/27/18 Time: 11:36					
Relinquished by: (Signature and Printed Name) Date: 10/27/18 Time: 11:36						Received by: (Signature and Printed Name) Date: 10/27/18 Time: 11:36					
As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.											
Signature _____											



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CHAIN OF CUSTODY RECORD

Page 1 of 1

Company:

Leighton Consulting

SEND REPORT TO:

Attn: Ross Surrency
Email: rsurrency@leightongroup.com

Project No.:

11640.008

PC #:

Sample: J. Bohlool
Project Name: LAUSD - Colfax ES
Quote #: D18J041
Special Instructions/Comments:
Item Laboratory ID
(For Lab Use Only)

ITEM Sample ID / Location

Date

Time

Requested Analysis

8081 (Organochlorine Pesticides)

8082 (PCBs)

Select Analysis

8015 (GRO)

Asbestos

Lead 6010B

Mercury 7471A

TPH-DRO, ORO (C13-C40) 8015

Soil

Select Water Matrix

Select Non-aqueous Matrix

Enter Custom Matrix

Preservative 1-HC, 2-HNO₃, 3-HNO₃, 4-HCl, 5-HNO₃, 6-HNO₃, 7-HNO₃, 8-H₂SO₄, 9-H₃PO₄

Sample Matrix

4-Ac, 5-Ac, 6-Ac, 7-Ac, 8-Ac, 9-Ac, 10-Ac

5, 6, 7, 8, 9, 10-Ac

Relinquished by: (Signature and Printed Name)

Received by: (Signature and Printed Name)

Date: 8/12/17 Time: 10:55 AM

Relinquished by: (Signature and Printed Name)

Received by: (Signature and Printed Name)

Date: 8/12/17 Time: 10:55 AM

Relinquished by: (Signature and Printed Name)

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Date: 8/12/17 Time: 10:55 AM

Relinquished by: (Signature and Printed Name)

Received by: (Signature and Printed Name)

Date: 8/12/17 Time: 10:55 AM

		For Laboratory Use Only		ATLCOC Ver.20180321
Method of Transport		Sample Conditions Upon Receipt		
<input type="checkbox"/> client	<input checked="" type="checkbox"/> ATL	<input type="checkbox"/> Condition Y	<input type="checkbox"/> N	
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	<input type="checkbox"/> 5 # OF SAMPLES	<input type="checkbox"/> 10	
<input type="checkbox"/> GSO		<input type="checkbox"/> 6 PRESERVED	<input type="checkbox"/> 7 COOLER TEMP. REQ.	<input checked="" type="checkbox"/>
Other: _____		<input type="checkbox"/> 3. CONTAINER IN FACT	<input type="checkbox"/> 4. SEALED	<input type="checkbox"/> 8. 10-15 business days. Projects requiring shorter TATs will incur a surcharge respective of quote.
		<input type="checkbox"/> 2. HEADSPACE (NOVA)	<input type="checkbox"/> 7. COOLER TEMP. REQ.	<input type="checkbox"/> 9. Hard copy & solid samples: Complimentary storage for forty (45) calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
		<input type="checkbox"/> 1. CHILLED	<input type="checkbox"/> 8. Hand copy reports will be disposed of after 45 calendar days from report date.	<input type="checkbox"/> 10. Rush TCM/STIC samples: add 2 days to analysis TAT for extraction procedure.
		<input type="checkbox"/> 2. HEADSPACE (NOVA)	<input type="checkbox"/> 9. Storage & hold: If extended storage or hold is requested, a sample will be randomly selected from all QC samples received from all clients. The laboratory will duplicate a MS/MSD at no cost. However, if you want the laboratory to additionally perform MS/MSD on your samples, a charge will be assessed for the specific sample used.	<input type="checkbox"/> 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
		<input type="checkbox"/> 3. CONTAINER IN FACT	<input type="checkbox"/> 10. Hard copy reports will be disposed of after 45 calendar days from report date.	<input type="checkbox"/> 12. The laboratory will randomly select from all QC samples received from all clients. The laboratory will duplicate a MS/MSD at no cost. However, if you want the laboratory to additionally perform MS/MSD on your samples, a charge will be assessed for the specific sample used.
		<input type="checkbox"/> 4. SEALED	<input type="checkbox"/> 11. Liquid & solid samples: Complimentary storage for forty (45) calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.	
		<input type="checkbox"/> 5. 4-Ac, 5-Ac, 6-Ac, 7-Ac, 8-Ac, 9-Ac, 10-Ac	<input type="checkbox"/> 12. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 6. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 13. Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.	
		<input type="checkbox"/> 7. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 14. Hard copy & solid samples: Complimentary storage for ten (10) calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.	
		<input type="checkbox"/> 8. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 15. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 9. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 16. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 10. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 17. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 11. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 18. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 12. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 19. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 13. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 20. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 14. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 21. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 15. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 22. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 16. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 23. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 17. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 24. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 18. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 25. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 19. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 26. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 20. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 27. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 21. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 28. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 22. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 29. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 23. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 30. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 24. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 31. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 25. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 32. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 26. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 33. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 27. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 34. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 28. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 35. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 29. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 36. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 30. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 37. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 31. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 38. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 32. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 39. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 33. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 40. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 34. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 41. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 35. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 42. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 36. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 43. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 37. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 44. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 38. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 45. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 39. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 46. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 40. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 47. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 41. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 48. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 42. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 49. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 43. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 50. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 44. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 51. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 45. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 52. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 46. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 53. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 47. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 54. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 48. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 55. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 49. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 56. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 50. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 57. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 51. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 58. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 52. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 59. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 53. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 60. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 54. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 61. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 55. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 62. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 56. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 63. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 57. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 64. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 58. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 65. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 59. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 66. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 60. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 67. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 61. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 68. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 62. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 69. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 63. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 70. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 64. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 71. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 65. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 72. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 66. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 73. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 67. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 74. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 68. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 75. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 69. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 76. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 70. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 77. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 71. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 78. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 72. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 79. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 73. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 80. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 74. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 81. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 75. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 82. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 76. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 83. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 77. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 84. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 78. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 85. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 79. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 86. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 80. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 87. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 81. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 88. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 82. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 89. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 83. 5, 6, 7, 8, 9, 10-Ac	<input type="checkbox"/> 90. Hard copy reports will be disposed of after 45 calendar days from report date.	
		<input type="checkbox"/> 84. 5, 6, 7, 8, 9, 10-Ac</		



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CHAIN OF CUSTODY RECORD

Page 10 of 11

Leighton Consulting

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421																																																																																																																																																																																																																																																																																																																																																	
SEND REPORT TO:		Email: raironcny@leightongroup.com		SEND INVOICE TO:		Email: accep payable@leighton group.com		same as SEND REPORT TO		Fax:																																																																																																																																																																																																																																																																																																																																																	
Attn: Ross Surrency	Company: Leighton Consulting	Address: 17781 Cowan	City: Irvine	State: CA	Zip: 92614	Address: 17781 Cowan	City: Irvine	State: CA	Zip: 92614																																																																																																																																																																																																																																																																																																																																																		
<table border="1"> <tr> <td colspan="2">Project Name: LAUSD - Colfax ES</td> <td colspan="2">Quote #: D18J041</td> <td colspan="2">Special Instructions/Comments:</td> <td colspan="6">Requested Analysis</td> </tr> <tr> <td colspan="2">Project No.: 11640.008</td> <td colspan="2">PO #:</td> <td colspan="2"></td> <td colspan="6"></td> </tr> <tr> <td colspan="2">Sampler: <i>J. Bokovinac</i></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="6"></td> </tr> <tr> <td colspan="12">8081 (Organochlorine Pesticides)</td> </tr> <tr> <td colspan="12">8082 (PCBs)</td> </tr> <tr> <td colspan="12">8115 (GRO)</td> </tr> <tr> <td colspan="12">Select Analysis</td> </tr> <tr> <td colspan="12">Lead 6010B</td> </tr> <tr> <td colspan="12">Arsenic 6020</td> </tr> <tr> <td colspan="12">Mercury 7471A</td> </tr> <tr> <td colspan="12">TPH-DRO, ORO (C13-C40) 8015</td> </tr> <tr> <td colspan="12">Soil</td> </tr> <tr> <td colspan="12">HOL D</td> </tr> <tr> <td colspan="12">Select Solid Matrix</td> </tr> <tr> <td colspan="12">Select Water Matrix</td> </tr> <tr> <td colspan="12">Select Non-aqueous Matrix</td> </tr> <tr> <td colspan="12">Enter Custom Matrix</td> </tr> <tr> <td colspan="12">Turnaround Time (TAT)</td> </tr> <tr> <td colspan="12">Quantity</td> </tr> <tr> <td colspan="12">Comments</td> </tr> <tr> <td colspan="12">Container</td> </tr> <tr> <td colspan="12">Material 1=Glass; 2=Vessel; 3=Container; 4=Print 5=Lab; 6=Tablet; 7=Centrifuge a=QC; b=ZnIAC; c=ND; d=NAZ; e=HSZ; f=EDD o=Excel EDF Equis O</td> </tr> <tr> <td colspan="12">QA/QC □ Caltrans □ Legal □ RWQCB □ Level IV □</td> </tr> </table>												Project Name: LAUSD - Colfax ES		Quote #: D18J041		Special Instructions/Comments:		Requested Analysis						Project No.: 11640.008		PO #:										Sampler: <i>J. Bokovinac</i>												8081 (Organochlorine Pesticides)												8082 (PCBs)												8115 (GRO)												Select Analysis												Select Analysis												Select Analysis												Select Analysis												Select Analysis												Select Analysis												Lead 6010B												Arsenic 6020												Mercury 7471A												TPH-DRO, ORO (C13-C40) 8015												Soil												HOL D												Select Solid Matrix												Select Water Matrix												Select Non-aqueous Matrix												Enter Custom Matrix												Turnaround Time (TAT)												Quantity												Comments												Container												Material 1=Glass; 2=Vessel; 3=Container; 4=Print 5=Lab; 6=Tablet; 7=Centrifuge a=QC; b=ZnIAC; c=ND; d=NAZ; e=HSZ; f=EDD o=Excel EDF Equis O												QA/QC □ Caltrans □ Legal □ RWQCB □ Level IV □											
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ADVANCED A^T TECHNOLOGY

L A B O R A T O R I E S
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date:
Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date:
Relinquished by: (Signature and Printed Name)	Date:	Received by: (Signature and Printed Name)	Date:

Time: 10:20 AM Time: 10:20 AM Time: 10:20 AM Time: 10:20 AM

As the authorized agent of the company above, I hereby purchase laboratory services from ATI as shown above and hereby guarantee payment as quoted.

John J. Hobbs
John J. Hobbs
President & CEO
Dedicated Nation

Page 170 of 174

Dominic Mata

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Friday, November 02, 2018 10:43 AM
To: Dominic Mata
Cc: Robert Lovdahl; Carmen Aguila; customer.relations@atlglobal.com
Subject: RE: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Two-day.

Ross

From: Dominic Mata [<mailto:dominic@atlglobal.com>]
Sent: Friday, November 02, 2018 10:41 AM
To: Ross Surrency
Cc: Robert Lovdahl; Carmen Aguila; customer.relations@atlglobal.com
Subject: RE: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Hi Ross,

What TAT would you like for the below arsenic analysis?

Thanks,
Dominic

From: Ross Surrency [<mailto:rsurrency@leightongroup.com>]
Sent: Friday, November 02, 2018 8:00 AM
To: Dominic Mata
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: RE: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Dominic,

Please run the following samples for arsenic:

PER12-1.5
PER14-1.5

Thanks,

Ross Surrency, PG
Associate Geologist
Leighton Consulting, Inc
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell
Geotechnical | Geoenvironmental | Materials Testing
SOLUTIONS YOU CAN BUILD ON

From: Dominic Mata [<mailto:dominic@atlglobal.com>]
Sent: Thursday, November 01, 2018 6:00 PM

Dominic Mata

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Friday, November 02, 2018 11:10 AM
To: Dominic Mata
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: RE: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Dominic,

Please analyze the following sample for TPH-DRO/ORO on a 2-day TAT:

PER22-1.5.

Thanks,

Ross Surrency, PG
Associate Geologist
Leighton Consulting, Inc
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell
Geotechnical | Geoenvironmental | Materials Testing
SOLUTIONS YOU CAN BUILD ON

From: Dominic Mata [mailto:dominic@atlglobal.com]
Sent: Thursday, November 01, 2018 6:00 PM
To: Ross Surrency
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Good afternoon Ross,

Please find partial results for the above project attached. Final report is pending 8081 & 8082 analyses that will be completed tomorrow (11/2). If I can further assist, please let me know.

Thanks,



Dominic Mata | Project Coordinator
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext. 238 | <http://www.atlglobal.com>

Laboratory *Excellence* *Defined*

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Dominic Mata

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Friday, November 02, 2018 1:26 PM
To: Dominic Mata
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: RE: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Dominic,

Please run STLC for lead on the following samples on a standard TAT:

PER15-0.5
PER24-0.5

Thanks,

Ross Surrency, PG
Associate Geologist
Leighton Consulting, Inc
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell
Geotechnical | Geoenvironmental | Materials Testing
SOLUTIONS YOU CAN BUILD ON

From: Dominic Mata [mailto:dominic@atlglobal.com]
Sent: Thursday, November 01, 2018 6:00 PM
To: Ross Surrency
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Good afternoon Ross,

Please find partial results for the above project attached. Final report is pending 8081 & 8082 analyses that will be completed tomorrow (11/2). If I can further assist, please let me know.

Thanks,



Dominic Mata | Project Coordinator
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext. 238 | <http://www.atlglobal.com>

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Dominic Mata

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Monday, November 05, 2018 9:13 AM
To: Dominic Mata
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: RE: Partial Results 2 - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Dominic,

Please analyze the following sample for OCPs (8081) on a 3-day TAT.

PER1-1.5.

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc
17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell

Geotechnical | Geoenvironmental | Materials Testing

SOLUTIONS YOU CAN BUILD ON

From: Dominic Mata [mailto:dominic@atlglobal.com]
Sent: Friday, November 02, 2018 2:38 PM
To: Ross Surrency
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: Partial Results 2 - LAUSD-Colfax ES, 11640.008 (ATL# 1804036)

Hello Ross,

Please find an updated draft report for all analyses that were due yesterday (11/1) for the above project attached. Final report is pending additional analyses requested today due Tuesday (11/6). If I can further assist, please let me know.

Thanks,



Dominic Mata | Project Coordinator
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext. 238 | <http://www.atlglobal.com>

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November 12, 2018

Ross Surrency
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1804142
Client Reference : LAUSD- Colfax ES, 11640.008

Enclosed are the results for sample(s) received on November 03, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read 'Eddie Rodriguez'.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PER1-SW-0.5	1804142-01	Soil	11/03/18 7:12	11/03/18 10:46
PER1-SW-1.5	1804142-02	Soil	11/03/18 7:14	11/03/18 10:46
PER1-SE-0.5	1804142-04	Soil	11/03/18 7:21	11/03/18 10:46
PER1-SE-1.5	1804142-05	Soil	11/03/18 7:22	11/03/18 10:46
PER22-NW-0.5	1804142-07	Soil	11/03/18 8:19	11/03/18 10:46
PER22-NW-1.5	1804142-08	Soil	11/03/18 8:20	11/03/18 10:46
PER22-NE-0.5	1804142-10	Soil	11/03/18 8:25	11/03/18 10:46
PER22-NE-1.5	1804142-11	Soil	11/03/18 8:27	11/03/18 10:46
PER12-NE-0.5	1804142-13	Soil	11/03/18 7:47	11/03/18 10:46
PER12-NE-1.5	1804142-14	Soil	11/03/18 7:48	11/03/18 10:46
PER12-SE-0.5	1804142-16	Soil	11/03/18 7:42	11/03/18 10:46
PER12-SE-1.5	1804142-17	Soil	11/03/18 7:43	11/03/18 10:46
PER14-NE-0.5	1804142-19	Soil	11/03/18 7:57	11/03/18 10:46
PER14-NE-1.5	1804142-20	Soil	11/03/18 7:58	11/03/18 10:46
PER14-SE-0.5	1804142-22	Soil	11/03/18 8:03	11/03/18 10:46
PER14-SE-1.5	1804142-23	Soil	11/03/18 8:04	11/03/18 10:46
EB-2	1804142-25	Water	11/03/18 8:33	11/03/18 10:46
DRUM COMPOSITE	1804142-26	Water	11/03/18 8:55	11/03/18 10:46



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

DETECTION SUMMARY

Client Sample ID PER1-SW-0.5

Lab ID: 1804142-01

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane [2C]	10	1.0	0.12	1	B8K0214	11/06/2018	11/07/18 10:23	
Chlordane [2C]	94	8.5	1.1	1	B8K0214	11/06/2018	11/07/18 10:23	
Dieldrin [2C]	39	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:23	
gamma-Chlordane	7.1	1.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:23	
Heptachlor epoxide [2C]	5.8	1.0	0.09	1	B8K0214	11/06/2018	11/07/18 10:23	

Client Sample ID PER1-SW-1.5

Lab ID: 1804142-02

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane [2C]	0.70	1.0	0.12	1	B8K0214	11/06/2018	11/07/18 10:33	J
Chlordane	7.1	8.5	1.1	1	B8K0214	11/06/2018	11/07/18 10:33	J
Dieldrin [2C]	2.7	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:33	
gamma-Chlordane	0.43	1.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:33	J
Heptachlor epoxide [2C]	0.64	1.0	0.09	1	B8K0214	11/06/2018	11/07/18 10:33	J

Client Sample ID PER1-SE-0.5

Lab ID: 1804142-04

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane [2C]	23	1.0	0.12	1	B8K0214	11/06/2018	11/07/18 10:44	
Chlordane [2C]	210	8.5	1.1	1	B8K0214	11/06/2018	11/07/18 10:44	
Dieldrin	36	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:44	
gamma-Chlordane	17	1.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:44	
Heptachlor epoxide [2C]	6.4	1.0	0.09	1	B8K0214	11/06/2018	11/07/18 10:44	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

DETECTION SUMMARY

Client Sample ID PER22-NW-0.5

Lab ID: 1804142-07

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.3	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:18	
ORO	7.1	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:18	

Client Sample ID PER22-NW-1.5

Lab ID: 1804142-08

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	13	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 19:09	
ORO	18	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 19:09	

Client Sample ID PER22-NE-0.5

Lab ID: 1804142-10

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9.0	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:35	
ORO	9.6	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:35	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

DETECTION SUMMARY

Client Sample ID PER22-NE-1.5

Lab ID: 1804142-11

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4.8	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:52	
ORO	5.2	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:52	

Client Sample ID PER12-NE-0.5

Lab ID: 1804142-13

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.2	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:20	D1

Client Sample ID PER12-NE-1.5

Lab ID: 1804142-14

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.4	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:55	D1

Client Sample ID PER12-SE-0.5

Lab ID: 1804142-16

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	8.3	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:29	D1



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

DETECTION SUMMARY

Client Sample ID PER12-SE-1.5

Lab ID: 1804142-17

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.1	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:31	D1

Client Sample ID PER14-NE-0.5

Lab ID: 1804142-19

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.8	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:33	D1

Client Sample ID PER14-NE-1.5

Lab ID: 1804142-20

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.8	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:57	D1

Client Sample ID PER14-SE-0.5

Lab ID: 1804142-22

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.5	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:59	D1



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

DETECTION SUMMARY

Client Sample ID PER14-SE-1.5

Lab ID: 1804142-23

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	0.98	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 16:01	D1, J

Client Sample ID DRUM COMPOSITE

Lab ID: 1804142-26

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Barium	0.27	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Cadmium	0.0054	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Chromium	0.078	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Cobalt	0.020	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Copper	0.063	0.0090	1	B8K0162	11/06/2018	11/06/18 14:38	
Lead	0.060	0.0050	1	B8K0162	11/06/2018	11/06/18 14:38	
Nickel	0.064	0.0050	1	B8K0162	11/06/2018	11/06/18 14:38	
Selenium	0.017	0.010	1	B8K0162	11/06/2018	11/06/18 14:38	
Vanadium	0.049	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Zinc	0.48	0.025	1	B8K0162	11/06/2018	11/06/18 14:38	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.6	0.05	0.05	1	B8K0283	11/08/2018	11/08/18 12:53	
ORO	0.55	0.05	0.05	1	B8K0283	11/08/2018	11/08/18 12:53	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER1-SW-0.5

Lab ID: 1804142-01

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:23	
4,4'-DDE	ND	2.0	0.05	1	B8K0214	11/06/2018	11/07/18 10:23	
4,4'-DDT	ND	2.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:23	
Aldrin	ND	1.0	0.04	1	B8K0214	11/06/2018	11/07/18 10:23	
alpha-BHC	ND	1.0	0.11	1	B8K0214	11/06/2018	11/07/18 10:23	
alpha-Chlordane [2C]	10	1.0	0.12	1	B8K0214	11/06/2018	11/07/18 10:23	
beta-BHC	ND	1.0	0.06	1	B8K0214	11/06/2018	11/07/18 10:23	
Chlordane [2C]	94	8.5	1.1	1	B8K0214	11/06/2018	11/07/18 10:23	
delta-BHC	ND	1.0	0.03	1	B8K0214	11/06/2018	11/07/18 10:23	
Dieldrin [2C]	39	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:23	
Endosulfan I	ND	1.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:23	
Endosulfan II	ND	2.0	0.03	1	B8K0214	11/06/2018	11/07/18 10:23	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0214	11/06/2018	11/07/18 10:23	
Endrin	ND	2.0	0.04	1	B8K0214	11/06/2018	11/07/18 10:23	
Endrin aldehyde	ND	2.0	0.31	1	B8K0214	11/06/2018	11/07/18 10:23	
Endrin ketone	ND	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:23	
gamma-BHC	ND	1.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:23	
gamma-Chlordane	7.1	1.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:23	
Heptachlor	ND	1.0	0.05	1	B8K0214	11/06/2018	11/07/18 10:23	
Heptachlor epoxide [2C]	5.8	1.0	0.09	1	B8K0214	11/06/2018	11/07/18 10:23	
Methoxychlor	ND	5.0	0.18	1	B8K0214	11/06/2018	11/07/18 10:23	
Toxaphene	ND	50	4.7	1	B8K0214	11/06/2018	11/07/18 10:23	
<i>Surrogate: Decachlorobiphenyl</i>	61.0 %		43 - 84		B8K0214	11/06/2018	11/07/18 10:23	
<i>Surrogate: Tetrachloro-m-xylene</i>	59.4 %		54 - 118		B8K0214	11/06/2018	11/07/18 10:23	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER1-SW-1.5

Lab ID: 1804142-02

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:33	
4,4'-DDE	ND	2.0	0.05	1	B8K0214	11/06/2018	11/07/18 10:33	
4,4'-DDT	ND	2.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:33	
Aldrin	ND	1.0	0.04	1	B8K0214	11/06/2018	11/07/18 10:33	
alpha-BHC	ND	1.0	0.11	1	B8K0214	11/06/2018	11/07/18 10:33	
alpha-Chlordane [2C]	0.70	1.0	0.12	1	B8K0214	11/06/2018	11/07/18 10:33	J
beta-BHC	ND	1.0	0.06	1	B8K0214	11/06/2018	11/07/18 10:33	
Chlordane	7.1	8.5	1.1	1	B8K0214	11/06/2018	11/07/18 10:33	J
delta-BHC	ND	1.0	0.03	1	B8K0214	11/06/2018	11/07/18 10:33	
Dieldrin [2C]	2.7	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:33	
Endosulfan I	ND	1.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:33	
Endosulfan II	ND	2.0	0.03	1	B8K0214	11/06/2018	11/07/18 10:33	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0214	11/06/2018	11/07/18 10:33	
Endrin	ND	2.0	0.04	1	B8K0214	11/06/2018	11/07/18 10:33	
Endrin aldehyde	ND	2.0	0.31	1	B8K0214	11/06/2018	11/07/18 10:33	
Endrin ketone	ND	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:33	
gamma-BHC	ND	1.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:33	
gamma-Chlordane	0.43	1.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:33	J
Heptachlor	ND	1.0	0.05	1	B8K0214	11/06/2018	11/07/18 10:33	
Heptachlor epoxide [2C]	0.64	1.0	0.09	1	B8K0214	11/06/2018	11/07/18 10:33	J
Methoxychlor	ND	5.0	0.18	1	B8K0214	11/06/2018	11/07/18 10:33	
Toxaphene	ND	50	4.7	1	B8K0214	11/06/2018	11/07/18 10:33	
<i>Surrogate: Decachlorobiphenyl</i>	<i>55.6 %</i>		<i>43 - 84</i>		B8K0214	11/06/2018	<i>11/07/18 10:33</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>53.2 %</i>		<i>54 - 118</i>		B8K0214	11/06/2018	<i>11/07/18 10:33</i>	S10



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER1-SE-0.5

Lab ID: 1804142-04

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:44	
4,4'-DDE	ND	2.0	0.05	1	B8K0214	11/06/2018	11/07/18 10:44	
4,4'-DDT	ND	2.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:44	
Aldrin	ND	1.0	0.04	1	B8K0214	11/06/2018	11/07/18 10:44	
alpha-BHC	ND	1.0	0.11	1	B8K0214	11/06/2018	11/07/18 10:44	
alpha-Chlordane [2C]	23	1.0	0.12	1	B8K0214	11/06/2018	11/07/18 10:44	
beta-BHC	ND	1.0	0.06	1	B8K0214	11/06/2018	11/07/18 10:44	
Chlordane [2C]	210	8.5	1.1	1	B8K0214	11/06/2018	11/07/18 10:44	
delta-BHC	ND	1.0	0.03	1	B8K0214	11/06/2018	11/07/18 10:44	
Dieldrin	36	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:44	
Endosulfan I	ND	1.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:44	
Endosulfan II	ND	2.0	0.03	1	B8K0214	11/06/2018	11/07/18 10:44	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0214	11/06/2018	11/07/18 10:44	
Endrin	ND	2.0	0.04	1	B8K0214	11/06/2018	11/07/18 10:44	
Endrin aldehyde	ND	2.0	0.31	1	B8K0214	11/06/2018	11/07/18 10:44	
Endrin ketone	ND	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:44	
gamma-BHC	ND	1.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:44	
gamma-Chlordane	17	1.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:44	
Heptachlor	ND	1.0	0.05	1	B8K0214	11/06/2018	11/07/18 10:44	
Heptachlor epoxide [2C]	6.4	1.0	0.09	1	B8K0214	11/06/2018	11/07/18 10:44	
Methoxychlor	ND	5.0	0.18	1	B8K0214	11/06/2018	11/07/18 10:44	
Toxaphene	ND	50	4.7	1	B8K0214	11/06/2018	11/07/18 10:44	
<i>Surrogate: Decachlorobiphenyl</i>	<i>55.2 %</i>		<i>43 - 84</i>		B8K0214	11/06/2018	<i>11/07/18 10:44</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>61.3 %</i>		<i>54 - 118</i>		B8K0214	11/06/2018	<i>11/07/18 10:44</i>	



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Client Sample ID PER1-SE-1.5

Lab ID: 1804142-05

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:54	
4,4'-DDE	ND	2.0	0.05	1	B8K0214	11/06/2018	11/07/18 10:54	
4,4'-DDT	ND	2.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:54	
Aldrin	ND	1.0	0.04	1	B8K0214	11/06/2018	11/07/18 10:54	
alpha-BHC	ND	1.0	0.11	1	B8K0214	11/06/2018	11/07/18 10:54	
alpha-Chlordane	ND	1.0	0.12	1	B8K0214	11/06/2018	11/07/18 10:54	
beta-BHC	ND	1.0	0.06	1	B8K0214	11/06/2018	11/07/18 10:54	
Chlordane	ND	8.5	1.1	1	B8K0214	11/06/2018	11/07/18 10:54	
delta-BHC	ND	1.0	0.03	1	B8K0214	11/06/2018	11/07/18 10:54	
Dieldrin	ND	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:54	
Endosulfan I	ND	1.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:54	
Endosulfan II	ND	2.0	0.03	1	B8K0214	11/06/2018	11/07/18 10:54	
Endosulfan sulfate	ND	2.0	0.08	1	B8K0214	11/06/2018	11/07/18 10:54	
Endrin	ND	2.0	0.04	1	B8K0214	11/06/2018	11/07/18 10:54	
Endrin aldehyde	ND	2.0	0.31	1	B8K0214	11/06/2018	11/07/18 10:54	
Endrin ketone	ND	2.0	0.13	1	B8K0214	11/06/2018	11/07/18 10:54	
gamma-BHC	ND	1.0	0.10	1	B8K0214	11/06/2018	11/07/18 10:54	
gamma-Chlordane	ND	1.0	0.07	1	B8K0214	11/06/2018	11/07/18 10:54	
Heptachlor	ND	1.0	0.05	1	B8K0214	11/06/2018	11/07/18 10:54	
Heptachlor epoxide	ND	1.0	0.09	1	B8K0214	11/06/2018	11/07/18 10:54	
Methoxychlor	ND	5.0	0.18	1	B8K0214	11/06/2018	11/07/18 10:54	
Toxaphene	ND	50	4.7	1	B8K0214	11/06/2018	11/07/18 10:54	
<i>Surrogate: Decachlorobiphenyl</i>	55.7 %		43 - 84		B8K0214	11/06/2018	11/07/18 10:54	
<i>Surrogate: Tetrachloro-m-xylene</i>	48.4 %		54 - 118		B8K0214	11/06/2018	11/07/18 10:54	S10



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER22-NW-0.5

Lab ID: 1804142-07

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	6.3	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:18	
ORO	7.1	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:18	
<i>Surrogate: p-Terphenyl</i>	72.5 %		34 - 158		B8K0252	11/07/2018	11/07/18 18:18	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER22-NW-1.5

Lab ID: 1804142-08

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	13	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 19:09	
ORO	18	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 19:09	
<i>Surrogate: p-Terphenyl</i>	90.7 %		34 - 158		B8K0252	11/07/2018	11/07/18 19:09	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
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Client Sample ID PER22-NE-0.5

Lab ID: 1804142-10

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	9.0	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:35	
ORO	9.6	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:35	
<i>Surrogate: p-Terphenyl</i>	<i>61.1 %</i>		<i>34 - 158</i>		B8K0252	11/07/2018	<i>11/07/18 18:35</i>	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER22-NE-1.5

Lab ID: 1804142-11

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	4.8	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:52	
ORO	5.2	1.0	1.0	1	B8K0252	11/07/2018	11/07/18 18:52	
<i>Surrogate: p-Terphenyl</i>	64.8 %		34 - 158		B8K0252	11/07/2018	11/07/18 18:52	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER12-NE-0.5

Lab ID: 1804142-13

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.2	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:20	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER12-NE-1.5

Lab ID: 1804142-14

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.4	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:55	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER12-SE-0.5

Lab ID: 1804142-16

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	8.3	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:29	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER12-SE-1.5

Lab ID: 1804142-17

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.1	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:31	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER14-NE-0.5

Lab ID: 1804142-19

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.8	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:33	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER14-NE-1.5

Lab ID: 1804142-20

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.8	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:57	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER14-SE-0.5

Lab ID: 1804142-22

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.5	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 15:59	D1



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID PER14-SE-1.5

Lab ID: 1804142-23

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	0.98	1.0	0.04	20	B8K0153	11/05/2018	11/07/18 16:01	D1, J



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID EB-2

Lab ID: 1804142-25

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.0050	0.0047	1	B8K0184	11/06/2018	11/06/18 15:04	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	0.39	1	B8K0155	11/05/2018	11/08/18 11:07	

Mercury by AA (Cold Vapor) EPA 7470A

Analyst: KEK

Analyte	Result (ug/L)	PQL (ug/L)	MDL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20		1	B8K0164	11/06/2018	11/06/18 12:40	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: VW

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.20	0.05	1	B8K0118	11/05/2018	11/05/18 12:30	
Surrogate: 4-Bromofluorobenzene	91.1 %		70 - 130		B8K0118	11/05/2018	11/05/18 12:30	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	0.05	0.05	1	B8K0283	11/08/2018	11/08/18 12:36	
ORO	ND	0.05	0.05	1	B8K0283	11/08/2018	11/08/18 12:36	
Surrogate: p-Terphenyl	137 %		32 - 169		B8K0283	11/08/2018	11/08/18 12:36	

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	0.05	0.006	1	B8K0268	11/07/2018	11/07/18 16:48	
4,4'-DDE	ND	0.05	0.005	1	B8K0268	11/07/2018	11/07/18 16:48	
4,4'-DDT	ND	0.05	0.01	1	B8K0268	11/07/2018	11/07/18 16:48	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID EB-2

Lab ID: 1804142-25

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aldrin	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
alpha-BHC	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
alpha-Chlordane	ND	0.02	0.003	1	B8K0268	11/07/2018	11/07/18 16:48	
beta-BHC	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
Chlordane	ND	0.25	0.03	1	B8K0268	11/07/2018	11/07/18 16:48	
delta-BHC	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
Dieldrin	ND	0.05	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
Endosulfan I	ND	0.02	0.005	1	B8K0268	11/07/2018	11/07/18 16:48	
Endosulfan II	ND	0.05	0.009	1	B8K0268	11/07/2018	11/07/18 16:48	
Endosulfan sulfate	ND	0.05	0.01	1	B8K0268	11/07/2018	11/07/18 16:48	
Endrin	ND	0.05	0.005	1	B8K0268	11/07/2018	11/07/18 16:48	
Endrin aldehyde	ND	0.05	0.003	1	B8K0268	11/07/2018	11/07/18 16:48	
Endrin ketone	ND	0.05	0.003	1	B8K0268	11/07/2018	11/07/18 16:48	
gamma-BHC	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
gamma-Chlordane	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
Heptachlor	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
Heptachlor epoxide	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:48	
Methoxychlor	ND	0.25	0.008	1	B8K0268	11/07/2018	11/07/18 16:48	
Toxaphene	ND	2.5	0.23	1	B8K0268	11/07/2018	11/07/18 16:48	
<i>Surrogate: Decachlorobiphenyl</i>	53.0 %		8 - 128		B8K0268	11/07/2018	11/07/18 16:48	
<i>Surrogate: Tetrachloro-m-xylene</i>	50.6 %		32 - 126		B8K0268	11/07/2018	11/07/18 16:48	

Polychlorinated Biphenyls by EPA 8082

Analyst: CO/

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes	
Aroclor 1016	ND	0.50	1	B8K0268	11/07/2018	11/07/18 15:57		
Aroclor 1221	ND	1.0	1	B8K0268	11/07/2018	11/07/18 15:57		
Aroclor 1232	ND	0.50	1	B8K0268	11/07/2018	11/07/18 15:57		
Aroclor 1242	ND	0.50	1	B8K0268	11/07/2018	11/07/18 15:57		
Aroclor 1248	ND	0.50	1	B8K0268	11/07/2018	11/07/18 15:57		
Aroclor 1254	ND	0.50	1	B8K0268	11/07/2018	11/07/18 15:57		
Aroclor 1260	ND	0.50	1	B8K0268	11/07/2018	11/07/18 15:57		
Aroclor 1262	ND	0.50	1	B8K0268	11/07/2018	11/07/18 15:57		
Aroclor 1268	ND	0.50	1	B8K0268	11/07/2018	11/07/18 15:57		
<i>Surrogate: Decachlorobiphenyl</i>	58.7 %		8 - 128		B8K0268	11/07/2018	11/07/18 15:57	
<i>Surrogate: Tetrachloro-m-xylene</i>	86.3 %		32 - 126		B8K0268	11/07/2018	11/07/18 15:57	



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Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID DRUM COMPOSITE Lab ID: 1804142-26

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.010	1	B8K0162	11/06/2018	11/06/18 14:38	
Arsenic	ND	0.010	1	B8K0162	11/06/2018	11/06/18 14:38	
Barium	0.27	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Beryllium	ND	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Cadmium	0.0054	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Chromium	0.078	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Cobalt	0.020	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Copper	0.063	0.0090	1	B8K0162	11/06/2018	11/06/18 14:38	
Lead	0.060	0.0050	1	B8K0162	11/06/2018	11/06/18 14:38	
Molybdenum	ND	0.0050	1	B8K0162	11/06/2018	11/06/18 14:38	
Nickel	0.064	0.0050	1	B8K0162	11/06/2018	11/06/18 14:38	
Selenium	0.017	0.010	1	B8K0162	11/06/2018	11/06/18 14:38	
Silver	ND	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Thallium	ND	0.015	1	B8K0162	11/06/2018	11/06/18 14:38	
Vanadium	0.049	0.0030	1	B8K0162	11/06/2018	11/06/18 14:38	
Zinc	0.48	0.025	1	B8K0162	11/06/2018	11/06/18 14:38	

Mercury by AA (Cold Vapor) EPA 7470A

Analyst: KEK

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20	1	B8K0164	11/06/2018	11/06/18 12:41	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	2.6	0.05	0.05	1	B8K0283	11/08/2018	11/08/18 12:53	
ORO	0.55	0.05	0.05	1	B8K0283	11/08/2018	11/08/18 12:53	
<i>Surrogate: p-Terphenyl</i>	25.0 %		32 - 169		B8K0283	11/08/2018	11/08/18 12:53	S13



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID DRUM COMPOSITE Lab ID: 1804142-26

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	0.05	0.006	1	B8K0268	11/07/2018	11/07/18 16:59	
4,4'-DDE	ND	0.05	0.005	1	B8K0268	11/07/2018	11/07/18 16:59	
4,4'-DDT	ND	0.05	0.01	1	B8K0268	11/07/2018	11/07/18 16:59	
Aldrin	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
alpha-BHC	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
alpha-Chlordane	ND	0.02	0.003	1	B8K0268	11/07/2018	11/07/18 16:59	
beta-BHC	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
Chlordane	ND	0.25	0.03	1	B8K0268	11/07/2018	11/07/18 16:59	
delta-BHC	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
Dieldrin	ND	0.05	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
Endosulfan I	ND	0.02	0.005	1	B8K0268	11/07/2018	11/07/18 16:59	
Endosulfan II	ND	0.05	0.009	1	B8K0268	11/07/2018	11/07/18 16:59	
Endosulfan sulfate	ND	0.05	0.01	1	B8K0268	11/07/2018	11/07/18 16:59	
Endrin	ND	0.05	0.005	1	B8K0268	11/07/2018	11/07/18 16:59	
Endrin aldehyde	ND	0.05	0.003	1	B8K0268	11/07/2018	11/07/18 16:59	
Endrin ketone	ND	0.05	0.003	1	B8K0268	11/07/2018	11/07/18 16:59	
gamma-BHC	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
gamma-Chlordane	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
Heptachlor	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
Heptachlor epoxide	ND	0.02	0.002	1	B8K0268	11/07/2018	11/07/18 16:59	
Methoxychlor	ND	0.25	0.008	1	B8K0268	11/07/2018	11/07/18 16:59	
Toxaphene	ND	2.5	0.23	1	B8K0268	11/07/2018	11/07/18 16:59	
<i>Surrogate: Decachlorobiphenyl</i>	6.37 %		8 - 128		B8K0268	11/07/2018	11/07/18 16:59	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	37.1 %		32 - 126		B8K0268	11/07/2018	11/07/18 16:59	



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID DRUM COMPOSITE Lab ID: 1804142-26

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,1,1-Trichloroethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,1,2,2-Tetrachloroethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,1,2-Trichloroethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,1-Dichloroethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,1-Dichloroethene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,1-Dichloropropene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2,3-Trichloropropane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2,3-Trichlorobenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2,4-Trichlorobenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2,4-Trimethylbenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2-Dibromo-3-chloropropane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2-Dibromoethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2-Dichlorobenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2-Dichloroethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,2-Dichloropropene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,3,5-Trimethylbenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,3-Dichlorobenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,3-Dichloropropane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
1,4-Dichlorobenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
2,2-Dichloropropane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
2-Chlorotoluene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
4-Chlorotoluene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
4-Isopropyltoluene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Benzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Bromobenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Bromochloromethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Bromodichloromethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Bromoform	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Bromomethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Carbon disulfide	ND	50	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Carbon tetrachloride	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Chlorobenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Chloroethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Chloroform	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Chloromethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
cis-1,2-Dichloroethene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID DRUM COMPOSITE Lab ID: 1804142-26

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Di-isopropyl ether	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Dibromochloromethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Dibromomethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Dichlorodifluoromethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Ethyl Acetate	ND	500	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Ethyl Ether	ND	500	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Ethyl tert-butyl ether	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Ethylbenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Freon-113	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Hexachlorobutadiene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Isopropylbenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
m,p-Xylene	ND	50	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Methylene chloride	ND	50	50	B8K0325	11/09/2018	11/09/18 19:15	D7
MTBE	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
n-Butylbenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
n-Propylbenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Naphthalene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
o-Xylene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
sec-Butylbenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Styrene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
tert-Amyl methyl ether	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
tert-Butanol	ND	500	50	B8K0325	11/09/2018	11/09/18 19:15	D7
tert-Butylbenzene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Tetrachloroethene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Toluene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
trans-1,2-Dichloroethene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
trans-1,3-Dichloropropene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Trichloroethene	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Trichlorofluoromethane	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Vinyl acetate	ND	500	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Vinyl chloride	ND	25	50	B8K0325	11/09/2018	11/09/18 19:15	D7
Gasoline Range Organics	ND	2500	50	B8K0328	11/09/2018	11/09/18 19:15	D7
Surrogate: 1,2-Dichloroethane-d4	85.3 %	57 - 152		B8K0328	11/09/2018	11/09/18 19:15	
Surrogate: 1,2-Dichloroethane-d4	88.9 %	57 - 152		B8K0325	11/09/2018	11/09/18 19:15	
Surrogate: 4-Bromofluorobenzene	93.6 %	62 - 134		B8K0328	11/09/2018	11/09/18 19:15	
Surrogate: 4-Bromofluorobenzene	96.1 %	62 - 134		B8K0325	11/09/2018	11/09/18 19:15	



Certificate of Analysis

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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Client Sample ID DRUM COMPOSITE Lab ID: 1804142-26

Volatile Organic Compounds by EPA 8260B

Analyst: QP

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time	Analyst	Notes
Surrogate: Dibromofluoromethane	80.0 %	56 - 167		B8K0325	11/09/2018	11/09/18 19:15		
Surrogate: Dibromofluoromethane	78.7 %	56 - 167		B8K0328	11/09/2018	11/09/18 19:15		
Surrogate: Toluene-d8	97.7 %	33 - 170		B8K0325	11/09/2018	11/09/18 19:15		
Surrogate: Toluene-d8	93.5 %	33 - 170		B8K0328	11/09/2018	11/09/18 19:15		



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QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0184 - EPA 3010A_W

Blank (B8K0184-BLK1)					Prepared: 11/6/2018 Analyzed: 11/6/2018						
Lead	ND	0.0050	0.0047								
LCS (B8K0184-BS1)						Prepared: 11/6/2018 Analyzed: 11/6/2018					
Lead	1.03283	0.0050	0.0047	1.00000		103	80 - 120				
Duplicate (B8K0184-DUP1)						Source: 1804142-25 Prepared: 11/6/2018 Analyzed: 11/6/2018					
Lead	ND	0.0050	0.0047			ND		NR	20		
Matrix Spike (B8K0184-MS1)						Source: 1804142-25 Prepared: 11/6/2018 Analyzed: 11/6/2018					
Lead	2.17177	0.0050	0.0047	2.50000		ND	86.9	59 - 123			
Matrix Spike Dup (B8K0184-MSD1)						Source: 1804142-25 Prepared: 11/6/2018 Analyzed: 11/6/2018					
Lead	2.17222	0.0050	0.0047	2.50000		ND	86.9	59 - 123	0.0204	20	



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0162 - EPA 3010A_W

Blank (B8K0162-BLK1)

Prepared: 11/6/2018 Analyzed: 11/6/2018

Antimony	ND	0.010	0.0088
Arsenic	ND	0.010	0.0078
Barium	ND	0.0030	0.0026
Beryllium	ND	0.0030	0.0016
Cadmium	ND	0.0030	0.0024
Chromium	ND	0.0030	0.0020
Cobalt	ND	0.0030	0.0016
Copper	ND	0.0090	0.0038
Lead	ND	0.0050	0.0047
Molybdenum	ND	0.0050	0.0030
Nickel	ND	0.0050	0.0046
Selenium	ND	0.010	0.0093
Silver	ND	0.0030	0.0024
Thallium	ND	0.015	0.0085
Vanadium	ND	0.0030	0.0022
Zinc	ND	0.025	0.0057

LCS (B8K0162-BS1)

Prepared: 11/6/2018 Analyzed: 11/6/2018

Antimony	1.05976	0.010	0.0088	1.00000	106	80 - 120
Arsenic	0.977915	0.010	0.0078	1.00000	97.8	80 - 120
Barium	0.992850	0.0030	0.0026	1.00000	99.3	80 - 120
Beryllium	0.923972	0.0030	0.0016	1.00000	92.4	80 - 120
Cadmium	0.918343	0.0030	0.0024	1.00000	91.8	80 - 120
Chromium	1.04333	0.0030	0.0020	1.00000	104	80 - 120
Cobalt	0.965722	0.0030	0.0016	1.00000	96.6	80 - 120
Copper	0.932056	0.0090	0.0038	1.00000	93.2	80 - 120
Lead	0.969196	0.0050	0.0047	1.00000	96.9	80 - 120
Molybdenum	0.961850	0.0050	0.0030	1.00000	96.2	80 - 120
Nickel	1.01068	0.0050	0.0046	1.00000	101	80 - 120
Selenium	0.969677	0.010	0.0093	1.00000	97.0	80 - 120
Silver	0.970450	0.0030	0.0024	1.00000	97.0	80 - 120
Thallium	0.972826	0.015	0.0085	1.00000	97.3	80 - 120
Vanadium	0.968074	0.0030	0.0022	1.00000	96.8	80 - 120
Zinc	0.927121	0.025	0.0057	1.00000	92.7	80 - 120

Duplicate (B8K0162-DUP1)

Source: 1804142-26

Prepared: 11/6/2018 Analyzed: 11/6/2018

Antimony	ND	0.010	0.0088	ND	NR	20
Arsenic	ND	0.010	0.0078	ND	NR	20
Barium	0.269150	0.0030	0.0026	0.267859	0.481	20
Beryllium	ND	0.0030	0.0016	ND	NR	20
Cadmium	0.005049	0.0030	0.0024	0.005414	6.98	20
Chromium	0.076102	0.0030	0.0020	0.078103	2.59	20



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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0162 - EPA 3010A_W (continued)

Duplicate (B8K0162-DUP1) - Continued **Source: 1804142-26** Prepared: 11/6/2018 Analyzed: 11/6/2018

Cobalt	0.020021	0.0030	0.0016		0.019992		0.147	20	
Copper	0.064500	0.0090	0.0038		0.063301		1.88	20	
Lead	0.062398	0.0050	0.0047		0.060249		3.50	20	
Molybdenum	ND	0.0050	0.0030		ND		NR	20	
Nickel	0.061087	0.0050	0.0046		0.063740		4.25	20	
Selenium	0.012754	0.010	0.0093		0.016808		27.4	20	R
Silver	ND	0.0030	0.0024		ND		NR	20	
Thallium	0.011038	0.015	0.0085		ND		NR	20	
Vanadium	0.050246	0.0030	0.0022		0.048991		2.53	20	
Zinc	0.492986	0.025	0.0057		0.479620		2.75	20	

Matrix Spike (B8K0162-MS1) **Source: 1804142-26** Prepared: 11/6/2018 Analyzed: 11/6/2018

Antimony	2.59525	0.010	0.0088	2.50000	ND	104	66 - 127		
Arsenic	2.72600	0.010	0.0078	2.50000	ND	109	63 - 131		
Barium	2.70015	0.0030	0.0026	2.50000	0.267859	97.3	62 - 129		
Beryllium	2.32743	0.0030	0.0016	2.50000	ND	93.1	66 - 126		
Cadmium	2.41348	0.0030	0.0024	2.50000	0.005414	96.3	59 - 124		
Chromium	2.39624	0.0030	0.0020	2.50000	0.078103	92.7	63 - 127		
Cobalt	2.40642	0.0030	0.0016	2.50000	0.019992	95.5	62 - 125		
Copper	2.74224	0.0090	0.0038	2.50000	0.063301	107	59 - 139		
Lead	2.48162	0.0050	0.0047	2.50000	0.060249	96.9	59 - 123		
Molybdenum	2.48538	0.0050	0.0030	2.50000	ND	99.4	30 - 169		
Nickel	2.45128	0.0050	0.0046	2.50000	0.063740	95.5	60 - 125		
Selenium	2.61360	0.010	0.0093	2.50000	0.016808	104	55 - 136		
Silver	2.76588	0.0030	0.0024	2.50000	ND	111	58 - 139		
Thallium	2.20979	0.015	0.0085	2.50000	ND	88.4	68 - 11		M1
Vanadium	2.39027	0.0030	0.0022	2.50000	0.048991	93.7	63 - 131		
Zinc	2.96144	0.025	0.0057	2.50000	0.479620	99.3	50 - 131		

Matrix Spike Dup (B8K0162-MSD1) **Source: 1804142-26** Prepared: 11/6/2018 Analyzed: 11/6/2018

Antimony	2.64728	0.010	0.0088	2.50000	ND	106	66 - 127	1.98	20
Arsenic	2.77224	0.010	0.0078	2.50000	ND	111	63 - 131	1.68	20
Barium	2.74744	0.0030	0.0026	2.50000	0.267859	99.2	62 - 129	1.74	20
Beryllium	2.36136	0.0030	0.0016	2.50000	ND	94.5	66 - 126	1.45	20
Cadmium	2.45353	0.0030	0.0024	2.50000	0.005414	97.9	59 - 124	1.65	20
Chromium	2.54553	0.0030	0.0020	2.50000	0.078103	98.7	63 - 127	6.04	20
Cobalt	2.43872	0.0030	0.0016	2.50000	0.019992	96.7	62 - 125	1.33	20
Copper	2.74144	0.0090	0.0038	2.50000	0.063301	107	59 - 139	0.0290	20
Lead	2.50367	0.0050	0.0047	2.50000	0.060249	97.7	59 - 123	0.885	20
Molybdenum	2.49620	0.0050	0.0030	2.50000	ND	99.8	30 - 169	0.435	20
Nickel	2.53936	0.0050	0.0046	2.50000	0.063740	99.0	60 - 125	3.53	20
Selenium	2.72640	0.010	0.0093	2.50000	0.016808	108	55 - 136	4.22	20



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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B8K0162 - EPA 3010A_W (continued)

Matrix Spike Dup (B8K0162-MSD1) - Continued Source: 1804142-26 Prepared: 11/6/2018 Analyzed: 11/6/2018

Silver	2.82929	0.0030	0.0024	2.50000	ND	113	58 - 139	2.27	20	
Thallium	2.28639	0.015	0.0085	2.50000	ND	91.5	68 - 11	3.41	20	M1
Vanadium	2.47016	0.0030	0.0022	2.50000	0.048991	96.8	63 - 131	3.29	20	
Zinc	2.99019	0.025	0.0057	2.50000	0.479620	100	50 - 131	0.966	20	



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B8K0153 - EPA 3050B MS_S

Blank (B8K0153-BLK1)							Prepared: 11/5/2018 Analyzed: 11/7/2018			
Arsenic	ND	0.25	0.01							
LCS (B8K0153-BS1)							Prepared: 11/5/2018 Analyzed: 11/7/2018			
Arsenic	4.04096	0.25	0.01	5.00000			80.8	70 - 130		
Matrix Spike (B8K0153-MS1)							Prepared: 11/5/2018 Analyzed: 11/7/2018			
Arsenic	10.2347	1.0	0.04	5.00000	6.18715	81.0	75 - 125			
Matrix Spike Dup (B8K0153-MSD1)							Prepared: 11/5/2018 Analyzed: 11/7/2018			
Arsenic	10.9131	1.0	0.04	5.00000	6.18715	94.5	75 - 125	6.42	20	



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	Limits	RPD	RPD Limit	Notes
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Batch B8K0153 - EPA 3050B MS_S

Post Spike (B8K0153-PS1) **Source: 1804142-13** Prepared: 11/5/2018 Analyzed: 11/7/2018

Arsenic 11.7549 10.0000 3.09357 86.6 75 - 125



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Total Metals by ICP-MS EPA 6020 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	Limits	RPD	RPD Limit	Notes
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Batch B8K0155 - EPA 3010A MS_W

Blank (B8K0155-BLK1)										Prepared: 11/5/2018 Analyzed: 11/8/2018
Arsenic	ND	1.0	0.39							
LCS (B8K0155-BS1)										Prepared: 11/5/2018 Analyzed: 11/8/2018
Arsenic	9.72817	1.0	0.39	10.0000		97.3	85 - 115			
Matrix Spike (B8K0155-MS1)					Source: 1804142-25					Prepared: 11/5/2018 Analyzed: 11/8/2018
Arsenic	9.39188	1.0	0.39	10.0000		ND	93.9	75 - 125		
Matrix Spike Dup (B8K0155-MSD1)					Source: 1804142-25					Prepared: 11/5/2018 Analyzed: 11/8/2018
Arsenic	9.02431	1.0	0.39	10.0000		ND	90.2	75 - 125	3.99	20
Post Spike (B8K0155-PS1)					Source: 1804142-25					Prepared: 11/5/2018 Analyzed: 11/8/2018
Arsenic	4.77802				5.00000	0.107490	93.4	75 - 125		



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Mercury by AA (Cold Vapor) EPA 7470A - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0164 - EPA 245.1/7470_W

Blank (B8K0164-BLK1)						Prepared: 11/6/2018	Analyzed: 11/6/2018			
Mercury	ND	0.20	0.03							
LCS (B8K0164-BS1)						Prepared: 11/6/2018	Analyzed: 11/6/2018			
Mercury	10.1460	0.20	0.03	10.0000		101	80 - 120			
Duplicate (B8K0164-DUP1)					Source: 1804142-26	Prepared: 11/6/2018	Analyzed: 11/6/2018			
Mercury	0.046408	0.20	0.03			ND		NR	20	
Matrix Spike (B8K0164-MS1)					Source: 1804142-26	Prepared: 11/6/2018	Analyzed: 11/6/2018			
Mercury	9.32395	0.20	0.03	10.0000		ND	93.2	70 - 130		
Matrix Spike Dup (B8K0164-MSD1)					Source: 1804142-26	Prepared: 11/6/2018	Analyzed: 11/6/2018			
Mercury	9.25191	0.20	0.03	10.0000		ND	92.5	70 - 130	0.776	20
Post Spike (B8K0164-PS1)					Source: 1804142-26	Prepared: 11/6/2018	Analyzed: 11/6/2018			
Mercury	4.70325				5.00000	0.019472	93.7	85 - 115		



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Report To : Ross Surrency
Reported : 11/12/2018

Gasoline Range Organics by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0118 - GCVOA_W

Blank (B8K0118-BLK1)

Prepared: 11/5/2018 Analyzed: 11/5/2018

Gasoline Range Organics	ND	0.20	0.05							
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Surrogate: 4-Bromofluorobenzene 0.09840 0.100000 98.4 70 - 130

LCS (B8K0118-BS1)

Prepared: 11/5/2018 Analyzed: 11/5/2018

Gasoline Range Organics	0.914000	0.20	0.05	1.00000		91.4	70 - 130			
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Surrogate: 4-Bromofluorobenzene 0.1021 0.100000 102 70 - 130

LCS Dup (B8K0118-BSD1)

Prepared: 11/5/2018 Analyzed: 11/5/2018

Gasoline Range Organics	0.897000	0.20	0.05	1.00000		89.7	70 - 130	1.88	20	
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Surrogate: 4-Bromofluorobenzene 0.09330 0.100000 93.3 70 - 130



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	Limits	RPD	RPD Limit	Notes
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Batch B8K0252 - GCSEMI_DRO_LL_S

Blank (B8K0252-BLK1)

Prepared: 11/7/2018 Analyzed: 11/7/2018

DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							

Surrogate: *p*-Terphenyl 2.865 2.66667 107 34 - 158

LCS (B8K0252-BS1)

Prepared: 11/7/2018 Analyzed: 11/7/2018

DRO	31.6170	1.0	1.0	33.3333		94.9	47 - 152			
Surrogate: <i>p</i> -Terphenyl	2.542			2.66667		95.3	34 - 158			

Matrix Spike (B8K0252-MS1)

Source: 1804142-10 Prepared: 11/7/2018 Analyzed: 11/7/2018

DRO	30.2057	1.0	1.0	33.3333	9.02267	63.5	34 - 130			
Surrogate: <i>p</i> -Terphenyl	2.349			2.66667		88.1	34 - 158			

Matrix Spike Dup (B8K0252-MSD1)

Source: 1804142-10 Prepared: 11/7/2018 Analyzed: 11/7/2018

DRO	30.4077	1.0	1.0	33.3333	9.02267	64.2	34 - 130	0.667	20	
Surrogate: <i>p</i> -Terphenyl	2.071			2.66667		77.6	34 - 158			



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Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0283 - GCSEMI_DRO_W

Blank (B8K0283-BLK1)

Prepared: 11/8/2018 Analyzed: 11/8/2018

DRO	ND	0.05	0.05							
ORO	ND	0.05	0.05							

Surrogate: *p*-Terphenyl 0.1046 8.00000E-2 131 32 - 169

LCS (B8K0283-BS1)

Prepared: 11/8/2018 Analyzed: 11/8/2018

DRO	1.01514	0.05	0.05	1.00000		102	45 - 161			
Surrogate: <i>p</i> -Terphenyl	0.09261			8.00000E-2		116	32 - 169			

Surrogate: *p*-Terphenyl 0.09261 8.00000E-2 116 32 - 169

LCS Dup (B8K0283-BSD1)

Prepared: 11/8/2018 Analyzed: 11/8/2018

DRO	1.05160	0.05	0.05	1.00000		105	45 - 161	3.53	20	
Surrogate: <i>p</i> -Terphenyl	0.08563			8.00000E-2		107	32 - 169			



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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0214 - GCSEMI_PCB/PEST_S

Blank (B8K0214-BLK1)

Prepared: 11/6/2018 Analyzed: 11/7/2018

4,4'-DDD	ND	2.0	0.07
4,4'-DDD [2C]	ND	2.0	0.07
4,4'-DDE	ND	2.0	0.05
4,4'-DDE [2C]	ND	2.0	0.05
4,4'-DDT	ND	2.0	0.10
4,4'-DDT [2C]	ND	2.0	0.10
Aldrin	ND	1.0	0.04
Aldrin [2C]	ND	1.0	0.04
alpha-BHC	ND	1.0	0.11
alpha-BHC [2C]	ND	1.0	0.11
alpha-Chlordane	ND	1.0	0.12
alpha-Chlordane [2C]	ND	1.0	0.12
beta-BHC	ND	1.0	0.06
beta-BHC [2C]	ND	1.0	0.06
Chlordane	ND	8.5	1.1
Chlordane [2C]	ND	8.5	1.1
delta-BHC	ND	1.0	0.03
delta-BHC [2C]	ND	1.0	0.03
Dieldrin	ND	2.0	0.13
Dieldrin [2C]	ND	2.0	0.13
Endosulfan I	ND	1.0	0.10
Endosulfan I [2C]	ND	1.0	0.10
Endosulfan II	ND	2.0	0.03
Endosulfan II [2C]	ND	2.0	0.03
Endosulfan sulfate	ND	2.0	0.08
Endosulfan Sulfate [2C]	ND	2.0	0.08
Endrin	ND	2.0	0.04
Endrin [2C]	ND	2.0	0.04
Endrin aldehyde	ND	2.0	0.31
Endrin aldehyde [2C]	ND	2.0	0.31
Endrin ketone	ND	2.0	0.13
Endrin ketone [2C]	ND	2.0	0.13
gamma-BHC	ND	1.0	0.10
gamma-BHC [2C]	ND	1.0	0.10
gamma-Chlordane	ND	1.0	0.07
gamma-Chlordane [2C]	ND	1.0	0.07
Heptachlor	ND	1.0	0.05
Heptachlor [2C]	ND	1.0	0.05
Heptachlor epoxide	ND	1.0	0.09
Heptachlor epoxide [2C]	ND	1.0	0.09
Methoxychlor	ND	5.0	0.18



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B8K0214 - GCSEMI_PCB/PEST_S (continued)
Blank (B8K0214-BLK1) - Continued

Prepared: 11/6/2018 Analyzed: 11/7/2018

Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
<i>Surrogate: Decachlorobiphenyl</i>	10.91			16.6667		65.5	43 - 84			
<i>Surrogate: Decachlorobiphenyl /</i>	7.648			16.6667		45.9	43 - 84			
<i>Surrogate: Tetrachloro-m-xylene</i>	12.41			16.6667		74.5	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	12.12			16.6667		72.7	54 - 118			

LCS (B8K0214-BS1)

Prepared: 11/6/2018 Analyzed: 11/7/2018

4,4'-DDD	13.2078	2.0	0.07	16.6667		79.2	73 - 110			
4,4'-DDD [2C]	12.5178	2.0	0.07	16.6667		75.1	73 - 110			
4,4'-DDE	12.2787	2.0	0.05	16.6667		73.7	71 - 99			
4,4'-DDE [2C]	12.2933	2.0	0.05	16.6667		73.8	71 - 99			
4,4'-DDT	10.0513	2.0	0.10	16.6667		60.3	51 - 106			
4,4'-DDT [2C]	13.1837	2.0	0.10	16.6667		79.1	51 - 106			
Aldrin	11.8378	1.0	0.04	16.6667		71.0	67 - 95			
Aldrin [2C]	11.8147	1.0	0.04	16.6667		70.9	67 - 95			
alpha-BHC	12.2463	1.0	0.11	16.6667		73.5	67 - 94			
alpha-BHC [2C]	12.0812	1.0	0.11	16.6667		72.5	67 - 94			
alpha-Chlordane	12.9498	1.0	0.12	16.6667		77.7	69 - 99			
alpha-Chlordane [2C]	11.5217	1.0	0.12	16.6667		69.1	69 - 99			
beta-BHC	12.1667	1.0	0.06	16.6667		73.0	67 - 99			
beta-BHC [2C]	12.2102	1.0	0.06	16.6667		73.3	67 - 99			
delta-BHC	12.7725	1.0	0.03	16.6667		76.6	73 - 103			
delta-BHC [2C]	13.7638	1.0	0.03	16.6667		82.6	73 - 103			
Dieldrin	12.1648	2.0	0.13	16.6667		73.0	65 - 93			
Dieldrin [2C]	11.7352	2.0	0.13	16.6667		70.4	65 - 93			
Endosulfan I	11.8760	1.0	0.10	16.6667		71.3	65 - 91			
Endosulfan I [2C]	10.8453	1.0	0.10	16.6667		65.1	65 - 91			
Endosulfan II	12.6025	2.0	0.03	16.6667		75.6	65 - 102			
Endosulfan II [2C]	12.6262	2.0	0.03	16.6667		75.8	65 - 102			
Endosulfan sulfate	11.7903	2.0	0.08	16.6667		70.7	64 - 106			
Endosulfan Sulfate [2C]	13.0043	2.0	0.08	16.6667		78.0	64 - 106			
Endrin	13.1177	2.0	0.04	16.6667		78.7	64 - 111			
Endrin [2C]	13.6922	2.0	0.04	16.6667		82.2	64 - 111			
Endrin aldehyde	11.6285	2.0	0.31	16.6667		69.8	64 - 109			
Endrin aldehyde [2C]	9.99083	2.0	0.31	16.6667		59.9	64 - 109			
Endrin ketone	10.9135	2.0	0.13	16.6667		65.5	57 - 101			
Endrin ketone [2C]	12.8603	2.0	0.13	16.6667		77.2	57 - 101			
gamma-BHC	11.6458	1.0	0.10	16.6667		69.9	65 - 96			
gamma-BHC [2C]	12.2977	1.0	0.10	16.6667		73.8	65 - 96			

L4



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Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0214 - GCSEMI_PCB/PEST_S (continued)
LCS (B8K0214-BS1) - Continued

Prepared: 11/6/2018 Analyzed: 11/7/2018

gamma-Chlordane	12.7037	1.0	0.07	16.6667		76.2	65 - 113			
gamma-Chlordane [2C]	10.8377	1.0	0.07	16.6667		65.0	65 - 113			
Heptachlor	11.8960	1.0	0.05	16.6667		71.4	61 - 96			
Heptachlor [2C]	12.8760	1.0	0.05	16.6667		77.3	61 - 96			
Heptachlor epoxide	11.5233	1.0	0.09	16.6667		69.1	64 - 89			
Heptachlor epoxide [2C]	11.4838	1.0	0.09	16.6667		68.9	64 - 89			
Methoxychlor	15.9818	5.0	0.18	16.6667		95.9	67 - 109			
Methoxychlor [2C]	14.8397	5.0	0.18	16.6667		89.0	67 - 109			
<i>Surrogate: Decachlorobiphenyl</i>	10.90			16.6667		65.4	43 - 84			
<i>Surrogate: Decachlorobiphenyl f</i>	7.761			16.6667		46.6	43 - 84			
<i>Surrogate: Tetrachloro-m-xylene</i>	11.68			16.6667		70.1	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	10.80			16.6667		64.8	54 - 118			

Matrix Spike (B8K0214-MS1)
Source: 1804142-01

Prepared: 11/6/2018 Analyzed: 11/7/2018

4,4'-DDD	11.4027	2.0	0.07	16.6667	ND	68.4	73 - 110			M2
4,4'-DDD [2C]	11.5903	2.0	0.07	16.6667	ND	69.5	73 - 110			M2
4,4'-DDE	11.6920	2.0	0.05	16.6667	ND	70.2	71 - 99			M2
4,4'-DDE [2C]	10.3313	2.0	0.05	16.6667	ND	62.0	71 - 99			M2
4,4'-DDT	9.90100	2.0	0.10	16.6667	ND	59.4	51 - 106			
4,4'-DDT [2C]	11.8065	2.0	0.10	16.6667	ND	70.8	51 - 106			
Aldrin	10.8832	1.0	0.04	16.6667	ND	65.3	67 - 95			M2
Aldrin [2C]	9.57517	1.0	0.04	16.6667	ND	57.5	67 - 95			M2
alpha-BHC	10.2487	1.0	0.11	16.6667	ND	61.5	67 - 94			M2
alpha-BHC [2C]	10.1420	1.0	0.11	16.6667	ND	60.9	67 - 94			M2
alpha-Chlordane	23.5563	1.0	0.12	16.6667	16.5548	42.0	69 - 99			M2
alpha-Chlordane [2C]	27.7352	1.0	0.12	16.6667	10.4910	103	69 - 99			M2
beta-BHC	10.6245	1.0	0.06	16.6667	ND	63.7	67 - 99			M2
beta-BHC [2C]	10.1767	1.0	0.06	16.6667	ND	61.1	67 - 99			M2
delta-BHC	10.9955	1.0	0.03	16.6667	ND	66.0	73 - 103			M2
delta-BHC [2C]	11.5483	1.0	0.03	16.6667	ND	69.3	73 - 103			M2
Dieldrin	39.8647	2.0	0.13	16.6667	37.2520	15.7	65 - 93			M2
Dieldrin [2C]	41.0448	2.0	0.13	16.6667	39.1455	11.4	65 - 93			M2
Endosulfan I	10.7538	1.0	0.10	16.6667	ND	64.5	65 - 91			M2
Endosulfan I [2C]	10.0263	1.0	0.10	16.6667	ND	60.2	65 - 91			M2
Endosulfan II	14.6685	2.0	0.03	16.6667	ND	88.0	65 - 102			
Endosulfan II [2C]	11.0807	2.0	0.03	16.6667	ND	66.5	65 - 102			
Endosulfan sulfate	11.2052	2.0	0.08	16.6667	ND	67.2	64 - 106			
Endosulfan Sulfate [2C]	11.5332	2.0	0.08	16.6667	ND	69.2	64 - 106			
Endrin	12.3597	2.0	0.04	16.6667	ND	74.2	64 - 111			
Endrin [2C]	13.2627	2.0	0.04	16.6667	ND	79.6	64 - 111			
Endrin aldehyde	14.8087	2.0	0.31	16.6667	ND	88.9	64 - 109			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B8K0214 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B8K0214-MS1) - Continued		Source: 1804142-01			Prepared: 11/6/2018 Analyzed: 11/7/2018				
Endrin aldehyde [2C]	8.47417	2.0	0.31	16.6667	ND	50.8	64 - 109		M2
Endrin ketone	9.56000	2.0	0.13	16.6667	ND	57.4	57 - 101		
Endrin ketone [2C]	12.1002	2.0	0.13	16.6667	ND	72.6	57 - 101		
gamma-BHC	10.3288	1.0	0.10	16.6667	ND	62.0	65 - 96		M2
gamma-BHC [2C]	10.3108	1.0	0.10	16.6667	ND	61.9	65 - 96		M2
gamma-Chlordane	15.7758	1.0	0.07	16.6667	7.07933	52.2	65 - 113		M2
gamma-Chlordane [2C]	12.6165	1.0	0.07	16.6667	4.82000	46.8	65 - 113		M2
Heptachlor	10.1548	1.0	0.05	16.6667	ND	60.9	61 - 96		M2
Heptachlor [2C]	9.72400	1.0	0.05	16.6667	ND	58.3	61 - 96		M2
Heptachlor epoxide	14.9172	1.0	0.09	16.6667	5.00383	59.5	64 - 89		M2
Heptachlor epoxide [2C]	14.7588	1.0	0.09	16.6667	5.80183	53.7	64 - 89		M2
Methoxychlor	16.5910	5.0	0.18	16.6667	ND	99.5	67 - 109		
Methoxychlor [2C]	17.3082	5.0	0.18	16.6667	ND	104	67 - 109		
<i>Surrogate: Decachlorobiphenyl</i>	10.32			16.6667		61.9	43 - 84		
<i>Surrogate: Decachlorobiphenyl f</i>	8.196			16.6667		49.2	43 - 84		
<i>Surrogate: Tetrachloro-m-xylene</i>	9.634			16.6667		57.8	54 - 118		
<i>Surrogate: Tetrachloro-m-xylene</i>	8.468			16.6667		50.8	54 - 118		S10

Matrix Spike Dup (B8K0214-MSD1)		Source: 1804142-01			Prepared: 11/6/2018 Analyzed: 11/7/2018				
4,4'-DDD	10.5057	2.0	0.07	16.6667	ND	63.0	73 - 110	8.19	20 M2
4,4'-DDD [2C]	10.8287	2.0	0.07	16.6667	ND	65.0	73 - 110	6.79	20 M2
4,4'-DDE	11.0265	2.0	0.05	16.6667	ND	66.2	71 - 99	5.86	20 M2
4,4'-DDE [2C]	9.90933	2.0	0.05	16.6667	ND	59.5	71 - 99	4.17	20 M2
4,4'-DDT	8.73050	2.0	0.10	16.6667	ND	52.4	51 - 106	12.6	20
4,4'-DDT [2C]	11.00002	2.0	0.10	16.6667	ND	66.0	51 - 106	7.07	20
Aldrin	10.5060	1.0	0.04	16.6667	ND	63.0	67 - 95	3.53	20 M2
Aldrin [2C]	9.34800	1.0	0.04	16.6667	ND	56.1	67 - 95	2.40	20 M2
alpha-BHC	9.94167	1.0	0.11	16.6667	ND	59.6	67 - 94	3.04	20 M2
alpha-BHC [2C]	10.1798	1.0	0.11	16.6667	ND	61.1	67 - 94	0.372	20 M2
alpha-Chlordane	22.3310	1.0	0.12	16.6667	16.5548	34.7	69 - 99	5.34	20 M2
alpha-Chlordane [2C]	26.6152	1.0	0.12	16.6667	10.4910	96.7	69 - 99	4.12	20
beta-BHC	10.2235	1.0	0.06	16.6667	ND	61.3	67 - 99	3.85	20 M2
beta-BHC [2C]	10.3275	1.0	0.06	16.6667	ND	62.0	67 - 99	1.47	20 M2
delta-BHC	10.3783	1.0	0.03	16.6667	ND	62.3	73 - 103	5.78	20 M2
delta-BHC [2C]	11.2855	1.0	0.03	16.6667	ND	67.7	73 - 103	2.30	20 M2
Dieldrin	38.1355	2.0	0.13	16.6667	37.2520	5.30	65 - 93	4.43	20 M2
Dieldrin [2C]	39.2858	2.0	0.13	16.6667	39.1455	0.842	65 - 93	4.38	20 M2
Endosulfan I	10.2143	1.0	0.10	16.6667	ND	61.3	65 - 91	5.15	20 M2
Endosulfan I [2C]	9.83050	1.0	0.10	16.6667	ND	59.0	65 - 91	1.97	20 M2
Endosulfan II	11.3945	2.0	0.03	16.6667	ND	68.4	65 - 102	25.1	20 R3
Endosulfan II [2C]	10.4925	2.0	0.03	16.6667	ND	63.0	65 - 102	5.45	20 M2



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	Limits	RPD	RPD Limit	Notes
Batch B8K0214 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B8K0214-MSD1) - Continued										
Source: 1804142-01 Prepared: 11/6/2018 Analyzed: 11/7/2018										
Endosulfan sulfate	11.4203	2.0	0.08	16.6667	ND	68.5	64 - 106	1.90	20	
Endosulfan Sulfate [2C]	10.7503	2.0	0.08	16.6667	ND	64.5	64 - 106	7.03	20	
Endrin	11.8027	2.0	0.04	16.6667	ND	70.8	64 - 111	4.61	20	
Endrin [2C]	12.4517	2.0	0.04	16.6667	ND	74.7	64 - 111	6.31	20	
Endrin aldehyde	11.2545	2.0	0.31	16.6667	ND	67.5	64 - 109	27.3	20	R3
Endrin aldehyde [2C]	8.09367	2.0	0.31	16.6667	ND	48.6	64 - 109	4.59	20	M2
Endrin ketone	9.88133	2.0	0.13	16.6667	ND	59.3	57 - 101	3.31	20	
Endrin ketone [2C]	11.4990	2.0	0.13	16.6667	ND	69.0	57 - 101	5.09	20	
gamma-BHC	9.93250	1.0	0.10	16.6667	ND	59.6	65 - 96	3.91	20	M2
gamma-BHC [2C]	10.2817	1.0	0.10	16.6667	ND	61.7	65 - 96	0.283	20	M2
gamma-Chlordane	14.9330	1.0	0.07	16.6667	7.07933	47.1	65 - 113	5.49	20	M2
gamma-Chlordane [2C]	12.3748	1.0	0.07	16.6667	4.82000	45.3	65 - 113	1.93	20	M2
Heptachlor	9.69083	1.0	0.05	16.6667	ND	58.1	61 - 96	4.68	20	M2
Heptachlor [2C]	9.98550	1.0	0.05	16.6667	ND	59.9	61 - 96	2.65	20	M2
Heptachlor epoxide	14.1743	1.0	0.09	16.6667	5.00383	55.0	64 - 89	5.11	20	M2
Heptachlor epoxide [2C]	14.3840	1.0	0.09	16.6667	5.80183	51.5	64 - 89	2.57	20	M2
Methoxychlor	17.5865	5.0	0.18	16.6667	ND	106	67 - 109	5.83	20	
Methoxychlor [2C]	16.2073	5.0	0.18	16.6667	ND	97.2	67 - 109	6.57	20	
Surrogate: Decachlorobiphenyl	9.806		16.6667			58.8	43 - 84			
Surrogate: Decachlorobiphenyl [	7.689		16.6667			46.1	43 - 84			
Surrogate: Tetrachloro-m-xylene	9.349		16.6667			56.1	54 - 118			
Surrogate: Tetrachloro-m-xylene	8.743		16.6667			52.5	54 - 118			S10



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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0268 - GCSEMI_PCB/PEST_W

Blank (B8K0268-BLK2)

Prepared: 11/7/2018 Analyzed: 11/7/2018

4,4'-DDD	ND	0.05	0.006
4,4'-DDD [2C]	ND	0.05	0.006
4,4'-DDE	ND	0.05	0.005
4,4'-DDE [2C]	ND	0.05	0.005
4,4'-DDT	ND	0.05	0.01
4,4'-DDT [2C]	ND	0.05	0.01
Aldrin	ND	0.02	0.002
Aldrin [2C]	ND	0.02	0.002
alpha-BHC	ND	0.02	0.002
alpha-BHC [2C]	ND	0.02	0.002
alpha-Chlordane	ND	0.02	0.003
alpha-Chlordane [2C]	ND	0.02	0.003
beta-BHC	ND	0.02	0.002
beta-BHC [2C]	ND	0.02	0.002
Chlordane	ND	0.25	0.03
Chlordane [2C]	ND	0.25	0.03
delta-BHC	ND	0.02	0.002
delta-BHC [2C]	ND	0.02	0.002
Dieldrin	ND	0.05	0.002
Dieldrin [2C]	ND	0.05	0.002
Endosulfan I	ND	0.02	0.005
Endosulfan I [2C]	ND	0.02	0.005
Endosulfan II	ND	0.05	0.009
Endosulfan II [2C]	ND	0.05	0.009
Endosulfan sulfate	ND	0.05	0.01
Endosulfan Sulfate [2C]	ND	0.05	0.01
Endrin	ND	0.05	0.005
Endrin [2C]	ND	0.05	0.005
Endrin aldehyde	ND	0.05	0.003
Endrin aldehyde [2C]	ND	0.05	0.003
Endrin ketone	ND	0.05	0.003
Endrin ketone [2C]	ND	0.05	0.003
gamma-BHC	ND	0.02	0.002
gamma-BHC [2C]	ND	0.02	0.002
gamma-Chlordane	ND	0.02	0.002
gamma-Chlordane [2C]	ND	0.02	0.002
Heptachlor	ND	0.02	0.002
Heptachlor [2C]	ND	0.02	0.002
Heptachlor epoxide	ND	0.02	0.002
Heptachlor epoxide [2C]	ND	0.02	0.002
Methoxychlor	ND	0.25	0.008



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B8K0268 - GCSEMI_PCB/PEST_W (continued)
Blank (B8K0268-BLK2) - Continued

Prepared: 11/7/2018 Analyzed: 11/7/2018

Methoxychlor [2C]	ND	0.25	0.008							
Toxaphene	ND	2.5	0.23							
Toxaphene [2C]	ND	2.5	0.23							
<i>Surrogate: Decachlorobiphenyl</i>	0.3216		0.500000		64.3	8 - 128				
<i>Surrogate: Decachlorobiphenyl f</i>	0.2783		0.500000		55.7	8 - 128				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.3344		0.500000		66.9	32 - 126				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.3240		0.500000		64.8	32 - 126				

LCS (B8K0268-BS2)

Prepared: 11/7/2018 Analyzed: 11/7/2018

4,4'-DDD	0.367200	0.05	0.006	0.500000	73.4	56 - 126				
4,4'-DDD [2C]	0.377050	0.05	0.006	0.500000	75.4	56 - 126				
4,4'-DDE	0.399190	0.05	0.005	0.500000	79.8	53 - 127				
4,4'-DDE [2C]	0.340125	0.05	0.005	0.500000	68.0	53 - 127				
4,4'-DDT	0.352255	0.05	0.01	0.500000	70.5	27 - 134				
4,4'-DDT [2C]	0.371490	0.05	0.01	0.500000	74.3	27 - 134				
Aldrin	0.389155	0.02	0.002	0.500000	77.8	53 - 123				
Aldrin [2C]	0.346750	0.02	0.002	0.500000	69.4	53 - 123				
alpha-BHC	0.377190	0.02	0.002	0.500000	75.4	58 - 120				
alpha-BHC [2C]	0.356465	0.02	0.002	0.500000	71.3	58 - 120				
alpha-Chlordane	0.389870	0.02	0.003	0.500000	78.0	55 - 123				
alpha-Chlordane [2C]	0.341975	0.02	0.003	0.500000	68.4	55 - 123				
beta-BHC	0.363460	0.02	0.002	0.500000	72.7	53 - 116				
beta-BHC [2C]	0.356845	0.02	0.002	0.500000	71.4	53 - 116				
delta-BHC	0.381600	0.02	0.002	0.500000	76.3	27 - 136				
delta-BHC [2C]	0.401340	0.02	0.002	0.500000	80.3	27 - 136				
Dieldrin	0.365985	0.05	0.002	0.500000	73.2	55 - 114				
Dieldrin [2C]	0.339920	0.05	0.002	0.500000	68.0	55 - 114				
Endosulfan I	0.368815	0.02	0.005	0.500000	73.8	52 - 117				
Endosulfan I [2C]	0.341110	0.02	0.005	0.500000	68.2	52 - 117				
Endosulfan II	0.379510	0.05	0.009	0.500000	75.9	53 - 128				
Endosulfan II [2C]	0.377770	0.05	0.009	0.500000	75.6	53 - 128				
Endosulfan sulfate	0.367225	0.05	0.01	0.500000	73.4	49 - 122				
Endosulfan Sulfate [2C]	0.378405	0.05	0.01	0.500000	75.7	49 - 122				
Endrin	0.391890	0.05	0.005	0.500000	78.4	59 - 123				
Endrin [2C]	0.397255	0.05	0.005	0.500000	79.5	59 - 123				
Endrin aldehyde	0.380195	0.05	0.003	0.500000	76.0	49 - 140				
Endrin aldehyde [2C]	0.381480	0.05	0.003	0.500000	76.3	49 - 140				
Endrin ketone	0.338170	0.05	0.003	0.500000	67.6	47 - 121				
Endrin ketone [2C]	0.379065	0.05	0.003	0.500000	75.8	47 - 121				
gamma-BHC	0.361345	0.02	0.002	0.500000	72.3	57 - 116				
gamma-BHC [2C]	0.357430	0.02	0.002	0.500000	71.5	57 - 116				



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0268 - GCSEMI_PCB/PEST_W (continued)
LCS (B8K0268-BS2) - Continued

Prepared: 11/7/2018 Analyzed: 11/7/2018

gamma-Chlordane	0.380955	0.02	0.002	0.500000		76.2	53 - 120			
gamma-Chlordane [2C]	0.343115	0.02	0.002	0.500000		68.6	53 - 120			
Heptachlor	0.378140	0.02	0.002	0.500000		75.6	55 - 121			
Heptachlor [2C]	0.392690	0.02	0.002	0.500000		78.5	55 - 121			
Heptachlor epoxide	0.376315	0.02	0.002	0.500000		75.3	54 - 113			
Heptachlor epoxide [2C]	0.348940	0.02	0.002	0.500000		69.8	54 - 113			
Methoxychlor	0.418290	0.25	0.008	0.500000		83.7	47 - 135			
Methoxychlor [2C]	0.423645	0.25	0.008	0.500000		84.7	47 - 135			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.3138</i>			<i>0.500000</i>		<i>62.8</i>	<i>8 - 128</i>			
<i>Surrogate: Decachlorobiphenyl f</i>	<i>0.2922</i>			<i>0.500000</i>		<i>58.4</i>	<i>8 - 128</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.3480</i>			<i>0.500000</i>		<i>69.6</i>	<i>32 - 126</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.3367</i>			<i>0.500000</i>		<i>67.3</i>	<i>32 - 126</i>			

LCS Dup (B8K0268-BSD2)

Prepared: 11/7/2018 Analyzed: 11/7/2018

4,4'-DDD	0.373630	0.05	0.006	0.500000		74.7	56 - 126	1.74	20	
4,4'-DDD [2C]	0.385205	0.05	0.006	0.500000		77.0	56 - 126	2.14	20	
4,4'-DDE	0.406060	0.05	0.005	0.500000		81.2	53 - 127	1.71	20	
4,4'-DDE [2C]	0.347825	0.05	0.005	0.500000		69.6	53 - 127	2.24	20	
4,4'-DDT	0.357760	0.05	0.01	0.500000		71.6	27 - 134	1.55	20	
4,4'-DDT [2C]	0.378405	0.05	0.01	0.500000		75.7	27 - 134	1.84	20	
Aldrin	0.396575	0.02	0.002	0.500000		79.3	53 - 123	1.89	20	
Aldrin [2C]	0.355510	0.02	0.002	0.500000		71.1	53 - 123	2.49	20	
alpha-BHC	0.385070	0.02	0.002	0.500000		77.0	58 - 120	2.07	20	
alpha-BHC [2C]	0.365810	0.02	0.002	0.500000		73.2	58 - 120	2.59	20	
alpha-Chlordane	0.397340	0.02	0.003	0.500000		79.5	55 - 123	1.90	20	
alpha-Chlordane [2C]	0.350715	0.02	0.003	0.500000		70.1	55 - 123	2.52	20	
beta-BHC	0.370245	0.02	0.002	0.500000		74.0	53 - 116	1.85	20	
beta-BHC [2C]	0.364840	0.02	0.002	0.500000		73.0	53 - 116	2.22	20	
delta-BHC	0.391250	0.02	0.002	0.500000		78.2	27 - 136	2.50	20	
delta-BHC [2C]	0.411050	0.02	0.002	0.500000		82.2	27 - 136	2.39	20	
Dieldrin	0.371490	0.05	0.002	0.500000		74.3	55 - 114	1.49	20	
Dieldrin [2C]	0.347390	0.05	0.002	0.500000		69.5	55 - 114	2.17	20	
Endosulfan I	0.373115	0.02	0.005	0.500000		74.6	52 - 117	1.16	20	
Endosulfan I [2C]	0.347670	0.02	0.005	0.500000		69.5	52 - 117	1.90	20	
Endosulfan II	0.385340	0.05	0.009	0.500000		77.1	53 - 128	1.52	20	
Endosulfan II [2C]	0.385420	0.05	0.009	0.500000		77.1	53 - 128	2.00	20	
Endosulfan sulfate	0.373205	0.05	0.01	0.500000		74.6	49 - 122	1.62	20	
Endosulfan Sulfate [2C]	0.386930	0.05	0.01	0.500000		77.4	49 - 122	2.23	20	
Endrin	0.395400	0.05	0.005	0.500000		79.1	59 - 123	0.892	20	
Endrin [2C]	0.403710	0.05	0.005	0.500000		80.7	59 - 123	1.61	20	
Endrin aldehyde	0.386735	0.05	0.003	0.500000		77.3	49 - 140	1.71	20	



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0268 - GCSEMI_PCB/PEST_W (continued)

LCS Dup (B8K0268-BSD2) - Continued

Prepared: 11/7/2018 Analyzed: 11/7/2018

Endrin aldehyde [2C]	0.389340	0.05	0.003	0.500000		77.9	49 - 140	2.04	20	
Endrin ketone	0.344300	0.05	0.003	0.500000		68.9	47 - 121	1.80	20	
Endrin ketone [2C]	0.384035	0.05	0.003	0.500000		76.8	47 - 121	1.30	20	
gamma-BHC	0.369115	0.02	0.002	0.500000		73.8	57 - 116	2.13	20	
gamma-BHC [2C]	0.366720	0.02	0.002	0.500000		73.3	57 - 116	2.57	20	
gamma-Chlordane	0.388010	0.02	0.002	0.500000		77.6	53 - 120	1.83	20	
gamma-Chlordane [2C]	0.351295	0.02	0.002	0.500000		70.3	53 - 120	2.36	20	
Heptachlor	0.396315	0.02	0.002	0.500000		79.3	55 - 121	4.69	20	
Heptachlor [2C]	0.399700	0.02	0.002	0.500000		79.9	55 - 121	1.77	20	
Heptachlor epoxide	0.381660	0.02	0.002	0.500000		76.3	54 - 113	1.41	20	
Heptachlor epoxide [2C]	0.356475	0.02	0.002	0.500000		71.3	54 - 113	2.14	20	
Methoxychlor	0.422555	0.25	0.008	0.500000		84.5	47 - 135	1.01	20	
Methoxychlor [2C]	0.429630	0.25	0.008	0.500000		85.9	47 - 135	1.40	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.3184</i>			<i>0.500000</i>		<i>63.7</i>	<i>8 - 128</i>			
<i>Surrogate: Decachlorobiphenyl [</i>	<i>0.2935</i>			<i>0.500000</i>		<i>58.7</i>	<i>8 - 128</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.3537</i>			<i>0.500000</i>		<i>70.7</i>	<i>32 - 126</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.3414</i>			<i>0.500000</i>		<i>68.3</i>	<i>32 - 126</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B8K0268 - GCSEMI_PCB/PEST_W
Blank (B8K0268-BLK1)

Prepared: 11/7/2018 Analyzed: 11/7/2018

Aroclor 1016	ND	0.50	0.04							
Aroclor 1221	ND	1.0	0.04							
Aroclor 1232	ND	0.50	0.04							
Aroclor 1242	ND	0.50	0.04							
Aroclor 1248	ND	0.50	0.04							
Aroclor 1254	ND	0.50	0.04							
Aroclor 1260	ND	0.50	0.04							
Aroclor 1262	ND	0.50	0.04							
Aroclor 1268	ND	0.50	0.04							
<i>Surrogate: Decachlorobiphenyl</i>	0.3948			0.500000		79.0	8 - 128			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.5081			0.500000		102	32 - 126			

Blank (B8K0268-BLK2)

Prepared: 11/7/2018 Analyzed: 11/8/2018

Aroclor 1016	ND	0.50	0.04							
Aroclor 1221	ND	1.0	0.04							
Aroclor 1232	ND	0.50	0.04							
Aroclor 1242	ND	0.50	0.04							
Aroclor 1248	ND	0.50	0.04							
Aroclor 1254	ND	0.50	0.04							
Aroclor 1260	ND	0.50	0.04							
Aroclor 1262	ND	0.50	0.04							
Aroclor 1268	ND	0.50	0.04							S10
<i>Surrogate: Decachlorobiphenyl</i>	0.000			0.500000		NR	8 - 128			S10
<i>Surrogate: Tetrachloro-m-xylene</i>	0.000			0.500000		NR	32 - 126			

LCS (B8K0268-BS1)

Prepared: 11/7/2018 Analyzed: 11/7/2018

Aroclor 1016	4.23324	0.50	0.04	5.00000		84.7	72 - 107			
Aroclor 1260	4.56826	0.50	0.04	5.00000		91.4	65 - 124			
<i>Surrogate: Decachlorobiphenyl</i>	0.3884			0.500000		77.7	8 - 128			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.4928			0.500000		98.6	32 - 126			

LCS (B8K0268-BS2)

Prepared: 11/7/2018 Analyzed: 11/8/2018

Aroclor 1016	ND	0.50	0.04			NR	72 - 107			
Aroclor 1260	ND	0.50	0.04			NR	65 - 124			
<i>Surrogate: Decachlorobiphenyl</i>	0.000			0.500000		NR	8 - 128			S10
<i>Surrogate: Tetrachloro-m-xylene</i>	0.000			0.500000		NR	32 - 126			S10

LCS Dup (B8K0268-BSD1)

Prepared: 11/7/2018 Analyzed: 11/7/2018

Aroclor 1016	4.21780	0.50	0.04	5.00000		84.4	72 - 107	0.365	20	
Aroclor 1260	4.55078	0.50	0.04	5.00000		91.0	65 - 124	0.383	20	
<i>Surrogate: Decachlorobiphenyl</i>	0.3912			0.500000		78.2	8 - 128			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	Limits	RPD	Limit	Notes
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Batch B8K0268 - GCSEMI_PCB/PEST_W (continued)

LCS Dup (B8K0268-BSD1) - Continued

Prepared: 11/7/2018 Analyzed: 11/7/2018

Surrogate: Tetrachloro-m-xylene 0.4927 0.500000 98.5 32 - 126

LCS Dup (B8K0268-BSD2)

Prepared: 11/7/2018 Analyzed: 11/8/2018

Aroclor 1016	ND	0.50	0.04		NR	72 - 107	20	
Aroclor 1260	ND	0.50	0.04		NR	65 - 124	20	
Surrogate: Decachlorobiphenyl	0.000			0.500000	NR	8 - 128		S10
Surrogate: Tetrachloro-m-xylene	0.000			0.500000	NR	32 - 126		S10



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Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0325 - MSVOA_W

Blank (B8K0325-BLK1)

Prepared: 11/9/2018 Analyzed: 11/9/2018

1,1,1,2-Tetrachloroethane	ND	0.50	0.11
1,1,1-Trichloroethane	ND	0.50	0.18
1,1,2,2-Tetrachloroethane	ND	0.50	0.17
1,1,2-Trichloroethane	ND	0.50	0.12
1,1-Dichloroethane	ND	0.50	0.16
1,1-Dichloroethene	ND	0.50	0.09
1,1-Dichloropropene	ND	0.50	0.21
1,2,3-Trichloropropane	ND	0.50	0.16
1,2,3-Trichlorobenzene	ND	0.50	0.12
1,2,4-Trichlorobenzene	ND	0.50	0.12
1,2,4-Trimethylbenzene	ND	0.50	0.08
1,2-Dibromo-3-chloropropane	ND	0.50	0.24
1,2-Dibromoethane	ND	0.50	0.11
1,2-Dichlorobenzene	ND	0.50	0.09
1,2-Dichloroethane	ND	0.50	0.19
1,2-Dichloropropane	ND	0.50	0.36
1,3,5-Trimethylbenzene	ND	0.50	0.05
1,3-Dichlorobenzene	ND	0.50	0.10
1,3-Dichloropropane	ND	0.50	0.07
1,4-Dichlorobenzene	ND	0.50	0.07
2,2-Dichloropropane	ND	0.50	0.16
2-Chlorotoluene	ND	0.50	0.08
4-Chlorotoluene	ND	0.50	0.08
4-Isopropyltoluene	ND	0.50	0.06
Benzene	ND	0.50	0.03
Bromobenzene	ND	0.50	0.09
Bromochloromethane	ND	0.50	0.24
Bromodichloromethane	ND	0.50	0.14
Bromoform	ND	0.50	0.13
Bromomethane	ND	0.50	0.42
Carbon disulfide	ND	1.0	0.12
Carbon tetrachloride	ND	0.50	0.19
Chlorobenzene	ND	0.50	0.07
Chloroethane	ND	0.50	0.40
Chloroform	ND	0.50	0.17
Chloromethane	ND	0.50	0.08
cis-1,2-Dichloroethene	ND	0.50	0.13
cis-1,3-Dichloropropene	ND	0.50	0.05
Di-isopropyl ether	ND	0.50	0.12
Dibromochloromethane	ND	0.50	0.14
Dibromomethane	ND	0.50	0.10



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0325 - MSVOA_W (continued)
Blank (B8K0325-BLK1) - Continued

Prepared: 11/9/2018 Analyzed: 11/9/2018

Dichlorodifluoromethane	ND	0.50	0.10
Ethyl Acetate	ND	10	1.8
Ethyl Ether	ND	10	1.3
Ethyl tert-butyl ether	ND	0.50	0.11
Ethylbenzene	ND	0.50	0.07
Freon-113	ND	0.50	0.17
Hexachlorobutadiene	ND	0.50	0.14
Isopropylbenzene	ND	0.50	0.05
m,p-Xylene	ND	1.0	0.08
Methylene chloride	ND	1.0	0.46
MTBE	ND	0.50	0.12
n-Butylbenzene	ND	0.50	0.05
n-Propylbenzene	ND	0.50	0.07
Naphthalene	ND	0.50	0.15
o-Xylene	ND	0.50	0.05
sec-Butylbenzene	ND	0.50	0.04
Styrene	ND	0.50	0.06
tert-Amyl methyl ether	ND	0.50	0.11
tert-Butanol	ND	10	2.9
tert-Butylbenzene	ND	0.50	0.06
Tetrachloroethene	ND	0.50	0.07
Toluene	ND	0.50	0.07
trans-1,2-Dichloroethene	ND	0.50	0.11
trans-1,3-Dichloropropene	ND	0.50	0.04
Trichloroethene	ND	0.50	0.05
Trichlorofluoromethane	ND	0.50	0.14
Vinyl acetate	ND	10	1.3
Vinyl chloride	ND	0.50	0.05

Surrogate: 1,2-Dichloroethane-d4	22.30	25.0000	89.2	57 - 152
Surrogate: 4-Bromofluorobenzene	24.21	25.0000	96.8	62 - 134
Surrogate: Dibromofluoromethan	21.18	25.0000	84.7	56 - 167
Surrogate: Toluene-d8	24.66	25.0000	98.6	33 - 170

LCS (B8K0325-BS1) Prepared: 11/9/2018 Analyzed: 11/9/2018

1,1,1,2-Tetrachloroethane	18.1600	0.50	0.11	20.0000	90.8	80 - 137
1,1,1-Trichloroethane	17.6200	0.50	0.18	20.0000	88.1	75 - 148
1,1,2,2-Tetrachloroethane	17.1200	0.50	0.17	20.0000	85.6	64 - 118
1,1,2-Trichloroethane	16.8300	0.50	0.12	20.0000	84.2	77 - 113
1,1-Dichloroethane	17.0100	0.50	0.16	20.0000	85.0	72 - 131
1,1-Dichloroethene	16.7800	0.50	0.09	20.0000	83.9	75 - 132
1,1-Dichloropropene	17.7800	0.50	0.21	20.0000	88.9	84 - 141



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0325 - MSVOA_W (continued)

LCS (B8K0325-BS1) - Continued

Prepared: 11/9/2018 Analyzed: 11/9/2018

1,2,3-Trichloropropane	16.4600	0.50	0.16	20.0000		82.3	65 - 111			
1,2,3-Trichlorobenzene	17.3200	0.50	0.12	20.0000		86.6	79 - 117			
1,2,4-Trichlorobenzene	17.8600	0.50	0.12	20.0000		89.3	78 - 121			
1,2,4-Trimethylbenzene	19.7500	0.50	0.08	20.0000		98.8	83 - 125			
1,2-Dibromo-3-chloropropane	14.3500	0.50	0.24	20.0000		71.8	54 - 116			
1,2-Dibromoethane	17.1500	0.50	0.11	20.0000		85.8	79 - 118			
1,2-Dichlorobenzene	19.4600	0.50	0.09	20.0000		97.3	82 - 115			
1,2-Dichloroethane	17.0000	0.50	0.19	20.0000		85.0	76 - 115			
1,2-Dichloropropane	18.3700	0.50	0.36	20.0000		91.8	74 - 113			
1,3,5-Trimethylbenzene	19.9800	0.50	0.05	20.0000		99.9	83 - 126			
1,3-Dichlorobenzene	20.1200	0.50	0.10	20.0000		101	84 - 118			
1,3-Dichloropropane	17.5100	0.50	0.07	20.0000		87.6	72 - 116			
1,4-Dichlorobenzene	19.0900	0.50	0.07	20.0000		95.4	83 - 112			
2,2-Dichloropropane	19.2100	0.50	0.16	20.0000		96.0	72 - 150			
2-Chlorotoluene	21.0000	0.50	0.08	20.0000		105	82 - 120			
4-Chlorotoluene	21.2500	0.50	0.08	20.0000		106	81 - 121			
4-Isopropyltoluene	19.9300	0.50	0.06	20.0000		99.6	86 - 124			
Benzene	36.6100	0.50	0.03	40.0000		91.5	81 - 118			
Bromobenzene	19.7600	0.50	0.09	20.0000		98.8	82 - 117			
Bromochloromethane	16.2200	0.50	0.24	20.0000		81.1	70 - 136			
Bromodichloromethane	19.2700	0.50	0.14	20.0000		96.4	80 - 122			
Bromoform	15.6900	0.50	0.13	20.0000		78.4	53 - 145			
Bromomethane	19.8300	0.50	0.42	20.0000		99.2	30 - 204			
Carbon disulfide	17.6400	1.0	0.12	20.0000		88.2	85 - 131			
Carbon tetrachloride	18.8600	0.50	0.19	20.0000		94.3	77 - 157			
Chlorobenzene	18.7200	0.50	0.07	20.0000		93.6	86 - 113			
Chloroethane	18.2300	0.50	0.40	20.0000		91.2	70 - 160			
Chloroform	16.9400	0.50	0.17	20.0000		84.7	66 - 136			
Chloromethane	17.6700	0.50	0.08	20.0000		88.4	52 - 138			
cis-1,2-Dichloroethene	16.9000	0.50	0.13	20.0000		84.5	71 - 128			
cis-1,3-Dichloropropene	16.6900	0.50	0.05	20.0000		83.4	71 - 123			
Di-isopropyl ether	16.1200	0.50	0.12	20.0000		80.6	64 - 123			
Dibromochloromethane	16.9300	0.50	0.14	20.0000		84.6	78 - 140			
Dibromomethane	17.2500	0.50	0.10	20.0000		86.2	78 - 109			
Dichlorodifluoromethane	18.8100	0.50	0.10	20.0000		94.0	64 - 144			
Ethyl Acetate	140.600	10	1.8	200.000		70.3	55 - 123			
Ethyl Ether	146.520	10	1.3	200.000		73.3	74 - 122			L4
Ethyl tert-butyl ether	15.3400	0.50	0.11	20.0000		76.7	72 - 120			
Ethylbenzene	40.3600	0.50	0.07	40.0000		101	90 - 116			
Freon-113	17.9200	0.50	0.17	20.0000		89.6	76 - 143			
Hexachlorobutadiene	21.4500	0.50	0.14	20.0000		107	81 - 129			
Isopropylbenzene	20.0700	0.50	0.05	20.0000		100	83 - 129			



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B8K0325 - MSVOA_W (continued)

LCS (B8K0325-BS1) - Continued

Prepared: 11/9/2018 Analyzed: 11/9/2018

m,p-Xylene	42.9600	1.0	0.08	40.0000		107	88 - 124			
Methylene chloride	18.3300	1.0	0.46	20.0000		91.6	76 - 137			
MTBE	14.4000	0.50	0.12	20.0000		72.0	67 - 121			
n-Butylbenzene	19.7100	0.50	0.05	20.0000		98.6	83 - 129			
n-Propylbenzene	21.9900	0.50	0.07	20.0000		110	85 - 124			
Naphthalene	15.2700	0.50	0.15	20.0000		76.4	67 - 113			
o-Xylene	39.1300	0.50	0.05	40.0000		97.8	82 - 129			
sec-Butylbenzene	20.0400	0.50	0.04	20.0000		100	86 - 127			
Styrene	18.5000	0.50	0.06	20.0000		92.5	83 - 122			
tert-Amyl methyl ether	15.1600	0.50	0.11	20.0000		75.8	61 - 114			
tert-Butanol	59.9600	10	2.9	100.000		60.0	45 - 121			
tert-Butylbenzene	19.7000	0.50	0.06	20.0000		98.5	84 - 130			
Tetrachloroethene	19.9800	0.50	0.07	20.0000		99.9	87 - 123			
Toluene	38.7800	0.50	0.07	40.0000		97.0	84 - 115			
trans-1,2-Dichloroethene	16.9400	0.50	0.11	20.0000		84.7	60 - 148			
trans-1,3-Dichloropropene	15.7600	0.50	0.04	20.0000		78.8	77 - 118			
Trichloroethene	18.7900	0.50	0.05	20.0000		94.0	79 - 129			
Trichlorofluoromethane	17.0300	0.50	0.14	20.0000		85.2	68 - 162			
Vinyl acetate	176.610	10	1.3	200.000		88.3	65 - 134			
Vinyl chloride	17.1400	0.50	0.05	20.0000		85.7	73 - 128			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	20.99			25.0000		84.0	57 - 152			
<i>Surrogate: 4-Bromofluorobenzene</i>	25.27			25.0000		101	62 - 134			
<i>Surrogate: Dibromofluoromethan</i>	21.53			25.0000		86.1	56 - 167			
<i>Surrogate: Toluene-d8</i>	25.10			25.0000		100	33 - 170			

LCS Dup (B8K0325-BSD1)

Prepared: 11/9/2018 Analyzed: 11/9/2018

1,1,1,2-Tetrachloroethane	19.3100	0.50	0.11	20.0000		96.6	80 - 137	6.14	20	
1,1,1-Trichloroethane	18.6000	0.50	0.18	20.0000		93.0	75 - 148	5.41	20	
1,1,2,2-Tetrachloroethane	20.3600	0.50	0.17	20.0000		102	64 - 118	17.3	20	
1,1,2-Trichloroethane	19.5300	0.50	0.12	20.0000		97.6	77 - 113	14.9	20	
1,1-Dichloroethane	17.7700	0.50	0.16	20.0000		88.8	72 - 131	4.37	20	
1,1-Dichloroethene	17.5400	0.50	0.09	20.0000		87.7	75 - 132	4.43	20	
1,1-Dichloropropene	18.4000	0.50	0.21	20.0000		92.0	84 - 141	3.43	20	
1,2,3-Trichloropropane	19.2600	0.50	0.16	20.0000		96.3	65 - 111	15.7	20	
1,2,3-Trichlorobenzene	19.3300	0.50	0.12	20.0000		96.6	79 - 117	11.0	20	
1,2,4-Trichlorobenzene	19.2000	0.50	0.12	20.0000		96.0	78 - 121	7.23	20	
1,2,4-Trimethylbenzene	19.9900	0.50	0.08	20.0000		100	83 - 125	1.21	20	
1,2-Dibromo-3-chloropropane	17.7100	0.50	0.24	20.0000		88.6	54 - 116	21.0	20	R
1,2-Dibromoethane	20.6300	0.50	0.11	20.0000		103	79 - 118	18.4	20	
1,2-Dichlorobenzene	20.4200	0.50	0.09	20.0000		102	82 - 115	4.81	20	
1,2-Dichloroethane	18.5100	0.50	0.19	20.0000		92.6	76 - 115	8.50	20	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0325 - MSVOA_W (continued)

LCS Dup (B8K0325-BSD1) - Continued

Prepared: 11/9/2018 Analyzed: 11/9/2018

1,2-Dichloropropane	19.7200	0.50	0.36	20.0000		98.6	74 - 113	7.09	20	
1,3,5-Trimethylbenzene	20.0300	0.50	0.05	20.0000		100	83 - 126	0.250	20	
1,3-Dichlorobenzene	20.6200	0.50	0.10	20.0000		103	84 - 118	2.45	20	
1,3-Dichloropropane	19.9800	0.50	0.07	20.0000		99.9	72 - 116	13.2	20	
1,4-Dichlorobenzene	19.7400	0.50	0.07	20.0000		98.7	83 - 112	3.35	20	
2,2-Dichloropropane	19.7100	0.50	0.16	20.0000		98.6	72 - 150	2.57	20	
2-Chlorotoluene	21.2500	0.50	0.08	20.0000		106	82 - 120	1.18	20	
4-Chlorotoluene	21.4600	0.50	0.08	20.0000		107	81 - 121	0.983	20	
4-Isopropyltoluene	20.0000	0.50	0.06	20.0000		100	86 - 124	0.351	20	
Benzene	38.0800	0.50	0.03	40.0000		95.2	81 - 118	3.94	20	
Bromobenzene	20.6100	0.50	0.09	20.0000		103	82 - 117	4.21	20	
Bromo(chloromethane	17.8900	0.50	0.24	20.0000		89.4	70 - 136	9.79	20	
Bromodichloromethane	20.7100	0.50	0.14	20.0000		104	80 - 122	7.20	20	
Bromoform	17.8800	0.50	0.13	20.0000		89.4	53 - 145	13.0	20	
Bromomethane	17.9300	0.50	0.42	20.0000		89.6	30 - 204	10.1	20	
Carbon disulfide	17.9900	1.0	0.12	20.0000		90.0	85 - 131	1.96	20	
Carbon tetrachloride	19.1700	0.50	0.19	20.0000		95.8	77 - 157	1.63	20	
Chlorobenzene	19.4900	0.50	0.07	20.0000		97.4	86 - 113	4.03	20	
Chloroethane	17.9600	0.50	0.40	20.0000		89.8	70 - 160	1.49	20	
Chloroform	17.8100	0.50	0.17	20.0000		89.0	66 - 136	5.01	20	
Chloromethane	17.9200	0.50	0.08	20.0000		89.6	52 - 138	1.40	20	
cis-1,2-Dichloroethylene	17.6900	0.50	0.13	20.0000		88.4	71 - 128	4.57	20	
cis-1,3-Dichloropropene	18.2700	0.50	0.05	20.0000		91.4	71 - 123	9.04	20	
Di-isopropyl ether	17.4500	0.50	0.12	20.0000		87.2	64 - 123	7.92	20	
Dibromochloromethane	18.7100	0.50	0.14	20.0000		93.6	78 - 140	9.99	20	
Dibromomethane	19.3500	0.50	0.10	20.0000		96.8	78 - 109	11.5	20	
Dichlorodifluoromethane	19.2600	0.50	0.10	20.0000		96.3	64 - 144	2.36	20	
Ethyl Acetate	176.930	10	1.8	200.000		88.5	55 - 123	22.9	20	R
Ethyl Ether	164.340	10	1.3	200.000		82.2	74 - 122	11.5	20	
Ethyl tert-butyl ether	17.6700	0.50	0.11	20.0000		88.4	72 - 120	14.1	20	
Ethylbenzene	41.5400	0.50	0.07	40.0000		104	90 - 116	2.88	20	
Freon-113	18.3200	0.50	0.17	20.0000		91.6	76 - 143	2.21	20	
Hexachlorobutadiene	21.3600	0.50	0.14	20.0000		107	81 - 129	0.420	20	
Isopropylbenzene	20.2800	0.50	0.05	20.0000		101	83 - 129	1.04	20	
m,p-Xylene	44.2000	1.0	0.08	40.0000		110	88 - 124	2.85	20	
Methylene chloride	19.4300	1.0	0.46	20.0000		97.2	76 - 137	5.83	20	
MTBE	17.3100	0.50	0.12	20.0000		86.6	67 - 121	18.4	20	
n-Butylbenzene	19.7400	0.50	0.05	20.0000		98.7	83 - 129	0.152	20	
n-Propylbenzene	22.1000	0.50	0.07	20.0000		110	85 - 124	0.499	20	
Naphthalene	18.3200	0.50	0.15	20.0000		91.6	67 - 113	18.2	20	
o-Xylene	40.5600	0.50	0.05	40.0000		101	82 - 129	3.59	20	
sec-Butylbenzene	20.0900	0.50	0.04	20.0000		100	86 - 127	0.249	20	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit	Notes
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Batch B8K0325 - MSVOA_W (continued)

LCS Dup (B8K0325-BSD1) - Continued

Prepared: 11/9/2018 Analyzed: 11/9/2018

Styrene	19.2300	0.50	0.06	20.0000		96.2	83 - 122	3.87	20	
tert-Amyl methyl ether	18.1800	0.50	0.11	20.0000		90.9	61 - 114	18.1	20	
tert-Butanol	84.8300	10	2.9	100.000		84.8	45 - 121	34.4	20	R
tert-Butylbenzene	19.8500	0.50	0.06	20.0000		99.2	84 - 130	0.759	20	
Tetrachloroethene	20.3800	0.50	0.07	20.0000		102	87 - 123	1.98	20	
Toluene	40.7300	0.50	0.07	40.0000		102	84 - 115	4.91	20	
trans-1,2-Dichloroethene	17.7300	0.50	0.11	20.0000		88.6	60 - 148	4.56	20	
trans-1,3-Dichloropropene	17.8500	0.50	0.04	20.0000		89.2	77 - 118	12.4	20	
Trichloroethene	19.6600	0.50	0.05	20.0000		98.3	79 - 129	4.53	20	
Trichlorofluoromethane	17.2300	0.50	0.14	20.0000		86.2	68 - 162	1.17	20	
Vinyl acetate	205.850	10	1.3	200.000		103	65 - 134	15.3	20	
Vinyl chloride	17.6500	0.50	0.05	20.0000		88.2	73 - 128	2.93	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	22.37			25.0000		89.5	57 - 152			
<i>Surrogate: 4-Bromofluorobenzene</i>	25.82			25.0000		103	62 - 134			
<i>Surrogate: Dibromofluoromethan</i>	21.93			25.0000		87.7	56 - 167			
<i>Surrogate: Toluene-d8</i>	25.18			25.0000		101	33 - 170			



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8K0328 - MSVOA_W

Blank (B8K0328-BLK1)

Prepared: 11/9/2018 Analyzed: 11/9/2018

Gasoline Range Organics	ND	50	15				
Surrogate: 1,2-Dichloroethane-d4	21.40			25.0000	85.6	57 - 152	
Surrogate: 4-Bromofluorobenzene	23.60			25.0000	94.4	62 - 134	
Surrogate: Dibromofluoromethan	20.85			25.0000	83.4	56 - 167	
Surrogate: Toluene-d8	23.60			25.0000	94.4	33 - 170	

LCS (B8K0328-BS1)

Prepared: 11/9/2018 Analyzed: 11/9/2018

Gasoline Range Organics	950.000	50	15	1000.00	95.0	70 - 130	
Surrogate: 1,2-Dichloroethane-d4	20.88			25.0000	83.5	57 - 152	
Surrogate: 4-Bromofluorobenzene	24.43			25.0000	97.7	62 - 134	
Surrogate: Dibromofluoromethan	20.24			25.0000	81.0	56 - 167	
Surrogate: Toluene-d8	24.37			25.0000	97.5	33 - 170	

LCS Dup (B8K0328-BSD1)

Prepared: 11/9/2018 Analyzed: 11/9/2018

Gasoline Range Organics	950.000	50	15	1000.00	95.0	70 - 130	0.00	20
Surrogate: 1,2-Dichloroethane-d4	21.84			25.0000	87.4	57 - 152		
Surrogate: 4-Bromofluorobenzene	24.76			25.0000	99.0	62 - 134		
Surrogate: Dibromofluoromethan	20.65			25.0000	82.6	56 - 167		
Surrogate: Toluene-d8	24.53			25.0000	98.1	33 - 170		



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 11/12/2018

Notes and Definitions

S13	Surrogate recovery was below laboratory acceptance limit. Sample reanalysis showed the same low recovery.
S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
R	RPD value outside acceptance criteria. Calculation is based on raw values.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
D7	A lesser amount of sample was analyzed due to matrix.
D1	Sample required dilution due to possible matrix interference.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.



LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 2

Instruction: Complete all shaded areas.

For Laboratory Use Only		Sample Conditions Upon Receipt	
		Condition	% Y%
<input type="checkbox"/> Client	<input type="checkbox"/> ALL	<input type="checkbox"/> 1. CHILLED	<input type="checkbox"/> 5. # OF SAMPLES MATCH LOC
<input type="checkbox"/> FedEx	<input type="checkbox"/> DHL	<input type="checkbox"/> 2. HEADSPACE (VOL)	<input type="checkbox"/> 6. PRESERVED
<input type="checkbox"/> GSO	<input type="checkbox"/> Other:	<input type="checkbox"/> 3. CONTAINER INACT	<input type="checkbox"/> 7. COOLER TEMP. deg C
		<input type="checkbox"/> 4. SEALED	<input type="checkbox"/> ✓

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421	
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		Attn: Accounts Payable		SEND INVOICE TO:		<input type="checkbox"/> same as SEND REPORT TO		Fax:	
Company: Leighton Consulting				Company: Leighton Group							
Address: 17781 Cowan				Address: 17781 Cowan							
City: Irvine		State: CA		City: Irvine		State: CA		Zip: 92614			
Project Name: LAUSD - Colfax ES		Quote #: D18J041		Special Instructions/Comments:		Requested Analysis		Sample Matrix		Container	
Project No.: 11640.008		PO#:									
Sampler: J. Bobiwash											
Sample Description											
ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location		Date	Time		HOLD		Turnaround Time (TAT)		Remarks
1	180474741-51	PERI-SW-0.5		7/18	7:12		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/> Routine
2	-	PERI-SW-1.5		7/14	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/> Caltrans
3	-	PERI-SW-3.0		7/17	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/> Legal
4	-	PERI-SE-0.5		7/21	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/> RMQCB
5	-	PERI-SE-1.5		7/22	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/> Level IV
6	-	PERI-SE-3.0		7/23	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
7	-	PER22-NW-0.5		8/19	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
8	-	PER22-NW-1.5		8/20	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
9	-	PER22-NW-3.0		8/21	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		
10											

CUSTODY TERMS		PROJECT SAMPLES	
Relinquished by: (Signature and Printed Name) Jeanne Blumholz		Received by: (Signature and Printed Name) J. C. Cowan	
Relinquished by: (Signature and Printed Name) Relinquished by: (Signature and Printed Name)		Date: 7/18 Time: 11:17 AM	
Relinquished by: (Signature and Printed Name)		Date: Received by: (Signature and Printed Name)	
4. Weekend, holiday after-hours work -- ask for quote.		5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective	
TAT = 4 - 100% Surcharge; 1TH BUSINESS DAY (COB 5:00 PM) TAT = 5 - 100% Surcharge; 2ND BUSINESS DAY (COB 5:00 PM) TAT = 3 - 100% Surcharge; 3RD BUSINESS DAY (COB 5:00 PM) TAT = 2 - 100% Surcharge; 4TH BUSINESS DAY (COB 5:00 PM)		TAT = 4 - 100% Surcharge; 1TH BUSINESS DAY (COB 5:00 PM) TAT = 5 - NO SURCHARGE; 2ND BUSINESS DAY (COB 5:00 PM)	
6. Hard copy reports will be disposed of after 45 calendar days from receipt of samples.		7. Electronic records maintained for five (5) years from report date.	
8. Hard copy reports will be disposed of after 45 calendar days from report date.		9. Storage and Report Fees: - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$25/sample/month if extended storage or hold is requested. - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20 sample/week if extended storage is requested.	
10. Rush TLC/STLC samples add 2 days to analysis TAT for extraction procedure.		11. Unanalyzed samples will incur a disposal fee of \$2 per sample.	
12. The laboratory will randomly select from all QC samples received to spike for Matrix Spike/Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.			
		As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.	
		Signature _____ Jennifer Bobiwash Printed Name _____	



LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 2

Instruction: Complete all shaded areas.

CUSTOMER		PROJECT SAMPLES		TERMS	
Company:	Leighton Consulting	Address:	17781 Cowan	Method of Transport	Condition
		City:	Irvine	Condition	Y N
		SEND REPORT TO:	State: CA Zip: 92614	Condition	Y N
Attn:	Ross Surrency	Email:	SEND INVOICE TO:	5. # OF SAMPLES	1. CHILLED
Company:	Leighton Consulting	Attn:	Accounts Payable	2. HEADSPACE (Y/N)	2. HEADSPACE (Y/N)
Address:	17781 Cowan	Company:	Leighton Group	3. CONTAINER INACT	3. CONTAINER INACT
City:	Irvine	Address:	17781 Cowan	4. SEALED	4. SEALED
Project Name:	LAUSD - Colfax ES	Quote #:	Special Instructions/Comments:	Quantity	Turnaround Time (TAT)
		D18J041			
ITEM	Laboratory ID (For Lab Use Only)	Sample Description		Sample Matrix	Container
1	180414L-13	PER22-NE-0.5	11518	825	
2	-11	PER22-NE-1.5		827	
3	-12	PER22-NE-3.0		828	
4	-13	PER12-NE-0.5		747	
5	-14	PER12-NE-1.5		748	
6	-15	PER12-NE-3.0		749	
7	-16	PER12-SE-0.5		742	
8	-17	PER12-SE-1.5		743	
9	-18	PER12-SE-3.0		745	
10					
REMARKS		4. Subcontract TAT is 10-15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.			
		5. Subcontract TAT is 10-15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.			
		6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.			
		7. Electronic records maintained for five (5) years from report date.			
		8. Hard copy reports will be disposed of after 45 calendar days from report date.			
		9. Storage and Report Fees: - Liquid and solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested. - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; - \$20/sample/week if extended storage is requested. - Hard copy and regenerated reports/EDDS: \$17.50 per hard copy report requested.			
RElinquished by: (Signature and Printed Name) Julianna Bobiwash		Date: <u>10/29/08</u>	Time: <u>10:00 AM</u>	Received By: (Signature and Printed Name) <u>Julianna Bobiwash</u>	Date: <u>10/29/08</u>
RElinquished by: (Signature and Printed Name) Reinforced by: (Signature and Printed Name)		Date: <u>10/29/08</u>	Time: <u>10:00 AM</u>	Received By: (Signature and Printed Name) <u>Julianna Bobiwash</u>	Date: <u>10/29/08</u>
RElinquished by: (Signature and Printed Name) Reinforced by: (Signature and Printed Name)		Date: <u>10/29/08</u>	Time: <u>10:00 AM</u>	Received By: (Signature and Printed Name) <u>Julianna Bobiwash</u>	Date: <u>10/29/08</u>
As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.					
Signature: <u>Julianna Bobiwash</u>					
Printed Name: <u>Julianna Bobiwash</u>					



ADVANCED TECHNOLOGY

L A B O R A T O R Y R I C H S
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 3

Instruction: Complete all shaded areas.



December 27, 2018

Ross Surrency
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1804912
Client Reference : LAUSD- Colfax ES, 11640.008

Enclosed are the results for sample(s) received on December 21, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez".

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 12/27/2018

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PER1-SE2-0.5	1804912-01	Soil	12/21/18 8:12	12/21/18 10:10
PER1-S-0.5	1804912-03	Soil	12/21/18 8:27	12/21/18 10:10
PER1-SW2-0.5	1804912-05	Soil	12/21/18 8:41	12/21/18 10:10

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 12/27/2018

DETECTION SUMMARY

Client Sample ID PER1-SE2-0.5

Lab ID: 1804912-01

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane	2.9	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:23	
Chlordane [2C]	27	8.5	1.1	1	B8L0747	12/26/2018	12/26/18 15:23	
Dieldrin [2C]	6.4	2.0	0.26	1	B8L0747	12/26/2018	12/26/18 15:23	
gamma-Chlordane [2C]	1.9	1.0	0.89	1	B8L0747	12/26/2018	12/26/18 15:23	
Heptachlor epoxide [2C]	0.66	1.0	0.09	1	B8L0747	12/26/2018	12/26/18 15:23	J

Client Sample ID PER1-S-0.5

Lab ID: 1804912-03

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDE	5.9	2.0	0.11	1	B8L0747	12/26/2018	12/26/18 15:34	
4,4'-DDT	5.0	2.0	0.10	1	B8L0747	12/26/2018	12/26/18 15:34	
alpha-Chlordane	18	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:34	
Chlordane	180	8.5	1.1	1	B8L0747	12/26/2018	12/26/18 15:34	
Dieldrin	30	2.0	0.26	1	B8L0747	12/26/2018	12/26/18 15:34	
gamma-Chlordane	13	1.0	0.89	1	B8L0747	12/26/2018	12/26/18 15:34	
Heptachlor epoxide [2C]	3.1	1.0	0.09	1	B8L0747	12/26/2018	12/26/18 15:34	

Client Sample ID PER1-SW2-0.5

Lab ID: 1804912-05

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
alpha-Chlordane [2C]	320	10	1.2	10	B8L0747	12/26/2018	12/26/18 16:31	
Chlordane	2600	85	11	10	B8L0747	12/26/2018	12/26/18 16:31	
Dieldrin	70	20	2.6	10	B8L0747	12/26/2018	12/26/18 16:31	
gamma-Chlordane	190	10	8.9	10	B8L0747	12/26/2018	12/26/18 16:31	
Heptachlor epoxide	38	10	0.89	10	B8L0747	12/26/2018	12/26/18 16:31	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 12/27/2018

Client Sample ID PER1-SE2-0.5

Lab ID: 1804912-01

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8L0747	12/26/2018	12/26/18 15:23	
4,4'-DDE	ND	2.0	0.11	1	B8L0747	12/26/2018	12/26/18 15:23	
4,4'-DDT	ND	2.0	0.10	1	B8L0747	12/26/2018	12/26/18 15:23	
Aldrin	ND	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:23	
alpha-BHC	ND	1.0	0.11	1	B8L0747	12/26/2018	12/26/18 15:23	
alpha-Chlordane	2.9	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:23	
beta-BHC	ND	1.0	0.06	1	B8L0747	12/26/2018	12/26/18 15:23	
Chlordane [2C]	27	8.5	1.1	1	B8L0747	12/26/2018	12/26/18 15:23	
delta-BHC	ND	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:23	
Dieldrin [2C]	6.4	2.0	0.26	1	B8L0747	12/26/2018	12/26/18 15:23	
Endosulfan I	ND	1.0	0.10	1	B8L0747	12/26/2018	12/26/18 15:23	
Endosulfan II	ND	2.0	0.15	1	B8L0747	12/26/2018	12/26/18 15:23	
Endosulfan sulfate	ND	2.0	0.16	1	B8L0747	12/26/2018	12/26/18 15:23	
Endrin	ND	2.0	0.14	1	B8L0747	12/26/2018	12/26/18 15:23	
Endrin aldehyde	ND	2.0	0.31	1	B8L0747	12/26/2018	12/26/18 15:23	
Endrin ketone	ND	2.0	0.13	1	B8L0747	12/26/2018	12/26/18 15:23	
gamma-BHC	ND	1.0	0.10	1	B8L0747	12/26/2018	12/26/18 15:23	
gamma-Chlordane [2C]	1.9	1.0	0.89	1	B8L0747	12/26/2018	12/26/18 15:23	
Heptachlor	ND	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:23	
Heptachlor epoxide [2C]	0.66	1.0	0.09	1	B8L0747	12/26/2018	12/26/18 15:23	J
Methoxychlor	ND	5.0	0.18	1	B8L0747	12/26/2018	12/26/18 15:23	
Toxaphene	ND	50	4.7	1	B8L0747	12/26/2018	12/26/18 15:23	
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>56.5 %</i>		<i>43 - 84</i>		B8L0747	12/26/2018	<i>12/26/18 15:23</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>59.3 %</i>		<i>54 - 118</i>		B8L0747	12/26/2018	<i>12/26/18 15:23</i>	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 12/27/2018

Client Sample ID PER1-S-0.5

Lab ID: 1804912-03

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	0.07	1	B8L0747	12/26/2018	12/26/18 15:34	
4,4'-DDE	5.9	2.0	0.11	1	B8L0747	12/26/2018	12/26/18 15:34	
4,4'-DDT	5.0	2.0	0.10	1	B8L0747	12/26/2018	12/26/18 15:34	
Aldrin	ND	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:34	
alpha-BHC	ND	1.0	0.11	1	B8L0747	12/26/2018	12/26/18 15:34	
alpha-Chlordane	18	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:34	
beta-BHC	ND	1.0	0.06	1	B8L0747	12/26/2018	12/26/18 15:34	
Chlordane	180	8.5	1.1	1	B8L0747	12/26/2018	12/26/18 15:34	
delta-BHC	ND	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:34	
Dieldrin	30	2.0	0.26	1	B8L0747	12/26/2018	12/26/18 15:34	
Endosulfan I	ND	1.0	0.10	1	B8L0747	12/26/2018	12/26/18 15:34	
Endosulfan II	ND	2.0	0.15	1	B8L0747	12/26/2018	12/26/18 15:34	
Endosulfan sulfate	ND	2.0	0.16	1	B8L0747	12/26/2018	12/26/18 15:34	
Endrin	ND	2.0	0.14	1	B8L0747	12/26/2018	12/26/18 15:34	
Endrin aldehyde	ND	2.0	0.31	1	B8L0747	12/26/2018	12/26/18 15:34	
Endrin ketone	ND	2.0	0.13	1	B8L0747	12/26/2018	12/26/18 15:34	
gamma-BHC	ND	1.0	0.10	1	B8L0747	12/26/2018	12/26/18 15:34	
gamma-Chlordane	13	1.0	0.89	1	B8L0747	12/26/2018	12/26/18 15:34	
Heptachlor	ND	1.0	0.12	1	B8L0747	12/26/2018	12/26/18 15:34	
Heptachlor epoxide [2C]	3.1	1.0	0.09	1	B8L0747	12/26/2018	12/26/18 15:34	
Methoxychlor	ND	5.0	0.18	1	B8L0747	12/26/2018	12/26/18 15:34	
Toxaphene	ND	50	4.7	1	B8L0747	12/26/2018	12/26/18 15:34	
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>65.4 %</i>		<i>43 - 84</i>		B8L0747	12/26/2018	<i>12/26/18 15:34</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>71.6 %</i>		<i>54 - 118</i>		B8L0747	12/26/2018	<i>12/26/18 15:34</i>	



Certificate of Analysis

Leighton Consulting, Inc.
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Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 12/27/2018

Client Sample ID PER1-SW2-0.5

Lab ID: 1804912-05

Organochlorine Pesticides by EPA 8081

Analyst: CO/

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	20	0.70	10	B8L0747	12/26/2018	12/26/18 16:31	
4,4'-DDE	ND	20	1.1	10	B8L0747	12/26/2018	12/26/18 16:31	
4,4'-DDT	ND	20	1.0	10	B8L0747	12/26/2018	12/26/18 16:31	
Aldrin	ND	10	1.2	10	B8L0747	12/26/2018	12/26/18 16:31	
alpha-BHC	ND	10	1.1	10	B8L0747	12/26/2018	12/26/18 16:31	
alpha-Chlordane [2C]	320	10	1.2	10	B8L0747	12/26/2018	12/26/18 16:31	
beta-BHC	ND	10	0.60	10	B8L0747	12/26/2018	12/26/18 16:31	
Chlordane	2600	85	11	10	B8L0747	12/26/2018	12/26/18 16:31	
delta-BHC	ND	10	1.2	10	B8L0747	12/26/2018	12/26/18 16:31	
Dieldrin	70	20	2.6	10	B8L0747	12/26/2018	12/26/18 16:31	
Endosulfan I	ND	10	1.0	10	B8L0747	12/26/2018	12/26/18 16:31	
Endosulfan II	ND	20	1.5	10	B8L0747	12/26/2018	12/26/18 16:31	
Endosulfan sulfate	ND	20	1.6	10	B8L0747	12/26/2018	12/26/18 16:31	
Endrin	ND	20	1.4	10	B8L0747	12/26/2018	12/26/18 16:31	
Endrin aldehyde	ND	20	3.1	10	B8L0747	12/26/2018	12/26/18 16:31	
Endrin ketone	ND	20	1.3	10	B8L0747	12/26/2018	12/26/18 16:31	
gamma-BHC	ND	10	1.0	10	B8L0747	12/26/2018	12/26/18 16:31	
gamma-Chlordane	190	10	8.9	10	B8L0747	12/26/2018	12/26/18 16:31	
Heptachlor	ND	10	1.2	10	B8L0747	12/26/2018	12/26/18 16:31	
Heptachlor epoxide	38	10	0.89	10	B8L0747	12/26/2018	12/26/18 16:31	
Methoxychlor	ND	50	1.8	10	B8L0747	12/26/2018	12/26/18 16:31	
Toxaphene	ND	500	47	10	B8L0747	12/26/2018	12/26/18 16:31	
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>68.9 %</i>		<i>43 - 84</i>		B8L0747	12/26/2018	<i>12/26/18 16:31</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>70.7 %</i>		<i>54 - 118</i>		B8L0747	12/26/2018	<i>12/26/18 16:31</i>	



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 12/27/2018

QUALITY CONTROL SECTION

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8L0747 - GCSEMI_PCB/PEST_S

Blank (B8L0747-BLK1)

Prepared: 12/26/2018 Analyzed: 12/26/2018

4,4'-DDD	ND	2.0	0.07							
4,4'-DDD [2C]	ND	2.0	0.07							
4,4'-DDE	ND	2.0	0.11							
4,4'-DDE [2C]	ND	2.0	0.11							
4,4'-DDT	ND	2.0	0.10							
4,4'-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.12							
Aldrin [2C]	ND	1.0	0.12							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.12							
alpha-Chlordane [2C]	ND	1.0	0.12							
beta-BHC	ND	1.0	0.06							
beta-BHC [2C]	ND	1.0	0.06							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.12							
delta-BHC [2C]	ND	1.0	0.12							
Dieldrin	ND	2.0	0.26							
Dieldrin [2C]	ND	2.0	0.26							
Endosulfan I	ND	1.0	0.10							
Endosulfan I [2C]	ND	1.0	0.10							
Endosulfan II	ND	2.0	0.15							
Endosulfan II [2C]	ND	2.0	0.15							
Endosulfan sulfate	ND	2.0	0.16							
Endosulfan Sulfate [2C]	ND	2.0	0.16							
Endrin	ND	2.0	0.14							
Endrin [2C]	ND	2.0	0.14							
Endrin aldehyde	ND	2.0	0.31							
Endrin aldehyde [2C]	ND	2.0	0.31							
Endrin ketone	ND	2.0	0.13							
Endrin ketone [2C]	ND	2.0	0.13							
gamma-BHC	ND	1.0	0.10							
gamma-BHC [2C]	ND	1.0	0.10							
gamma-Chlordane	ND	1.0	0.89							
gamma-Chlordane [2C]	ND	1.0	0.89							
Heptachlor	ND	1.0	0.12							
Heptachlor [2C]	ND	1.0	0.12							
Heptachlor epoxide	ND	1.0	0.09							



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 12/27/2018

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8L0747 - GCSEMI_PCB/PEST_S (continued)
Blank (B8L0747-BLK1) - Continued

Prepared: 12/26/2018 Analyzed: 12/26/2018

Heptachlor epoxide [2C]	ND	1.0	0.09							
Methoxychlor	ND	5.0	0.18							
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
<i>Surrogate: Decachlorobiphenyl</i>	12.30			16.6667		73.8		43 - 84		
<i>Surrogate: Decachlorobiphenyl f</i>	9.303			16.6667		55.8		43 - 84		
<i>Surrogate: Tetrachloro-m-xylene</i>	13.14			16.6667		78.9		54 - 118		
<i>Surrogate: Tetrachloro-m-xylene</i>	13.82			16.6667		82.9		54 - 118		

LCS (B8L0747-BS1)

Prepared: 12/26/2018 Analyzed: 12/26/2018

4,4'-DDD	16.2990	2.0	0.07	16.6667		97.8		73 - 110		
4,4'-DDD [2C]	14.7428	2.0	0.07	16.6667		88.5		73 - 110		
4,4'-DDE	16.1233	2.0	0.11	16.6667		96.7		71 - 99		
4,4'-DDE [2C]	14.4622	2.0	0.11	16.6667		86.8		71 - 99		
4,4'-DDT	13.4623	2.0	0.10	16.6667		80.8		51 - 106		
4,4'-DDT [2C]	14.3267	2.0	0.10	16.6667		86.0		51 - 106		
Aldrin	14.0992	1.0	0.12	16.6667		84.6		67 - 95		
Aldrin [2C]	12.9605	1.0	0.12	16.6667		77.8		67 - 95		
alpha-BHC	14.9648	1.0	0.11	16.6667		89.8		67 - 94		
alpha-BHC [2C]	13.1625	1.0	0.11	16.6667		79.0		67 - 94		
alpha-Chlordane	15.3452	1.0	0.12	16.6667		92.1		69 - 99		
alpha-Chlordane [2C]	12.9402	1.0	0.12	16.6667		77.6		69 - 99		
beta-BHC	15.8093	1.0	0.06	16.6667		94.9		67 - 99		
beta-BHC [2C]	14.0820	1.0	0.06	16.6667		84.5		67 - 99		
delta-BHC	15.9018	1.0	0.12	16.6667		95.4		73 - 103		
delta-BHC [2C]	15.0855	1.0	0.12	16.6667		90.5		73 - 103		
Dieldrin	14.5963	2.0	0.26	16.6667		87.6		65 - 93		
Dieldrin [2C]	12.5000	2.0	0.26	16.6667		75.0		65 - 93		
Endosulfan I	13.8935	1.0	0.10	16.6667		83.4		65 - 91		
Endosulfan I [2C]	11.4357	1.0	0.10	16.6667		68.6		65 - 91		
Endosulfan II	15.2102	2.0	0.15	16.6667		91.3		65 - 102		
Endosulfan II [2C]	13.7330	2.0	0.15	16.6667		82.4		65 - 102		
Endosulfan sulfate	15.6455	2.0	0.16	16.6667		93.9		64 - 106		
Endosulfan Sulfate [2C]	12.6860	2.0	0.16	16.6667		76.1		64 - 106		
Endrin	16.6870	2.0	0.14	16.6667		100		64 - 111		
Endrin [2C]	14.0988	2.0	0.14	16.6667		84.6		64 - 111		
Endrin aldehyde	14.5242	2.0	0.31	16.6667		87.1		64 - 109		
Endrin aldehyde [2C]	9.60917	2.0	0.31	16.6667		57.7		64 - 109		
Endrin ketone	13.7792	2.0	0.13	16.6667		82.7		57 - 101		
Endrin ketone [2C]	13.6128	2.0	0.13	16.6667		81.7		57 - 101		

L4



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 12/27/2018

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B8L0747 - GCSEMI_PCB/PEST_S (continued)
LCS (B8L0747-BS1) - Continued

Prepared: 12/26/2018 Analyzed: 12/26/2018

gamma-BHC	13.9870	1.0	0.10	16.6667		83.9	65 - 96
gamma-BHC [2C]	12.6672	1.0	0.10	16.6667		76.0	65 - 96
gamma-Chlordane	18.8218	1.0	0.89	16.6667		113	65 - 113
gamma-Chlordane [2C]	12.3777	1.0	0.89	16.6667		74.3	65 - 113
Heptachlor	14.3947	1.0	0.12	16.6667		86.4	61 - 96
Heptachlor [2C]	13.0073	1.0	0.12	16.6667		78.0	61 - 96
Heptachlor epoxide	13.9403	1.0	0.09	16.6667		83.6	64 - 89
Heptachlor epoxide [2C]	12.2378	1.0	0.09	16.6667		73.4	64 - 89
Methoxychlor	15.7358	5.0	0.18	16.6667		94.4	67 - 109
Methoxychlor [2C]	14.2280	5.0	0.18	16.6667		85.4	67 - 109
<i>Surrogate: Decachlorobiphenyl</i>	10.25			16.6667		61.5	43 - 84
<i>Surrogate: Decachlorobiphenyl [</i>	9.685			16.6667		58.1	43 - 84
<i>Surrogate: Tetrachloro-m-xylene</i>	12.95			16.6667		77.7	54 - 118
<i>Surrogate: Tetrachloro-m-xylene</i>	13.23			16.6667		79.4	54 - 118

Duplicate (B8L0747-DUP1)
Source: 1804912-05

Prepared: 12/26/2018 Analyzed: 12/27/2018

4,4'-DDD	ND	20	0.70	ND			20
4,4'-DDD [2C]	ND	20	0.70	ND			20
4,4'-DDE	ND	20	1.1	ND			20
4,4'-DDE [2C]	ND	20	1.1	ND			20
4,4'-DDT	ND	20	1.0	ND			20
4,4'-DDT [2C]	ND	20	1.0	ND			20
Aldrin	ND	10	1.2	ND			20
Aldrin [2C]	ND	10	1.2	ND			20
alpha-BHC	ND	10	1.1	ND			20
alpha-BHC [2C]	ND	10	1.1	ND			20
alpha-Chlordane	379.072	10	1.2	378.652		0.111	20
alpha-Chlordane [2C]	459.703	10	1.2	315.943		37.1	20
beta-BHC	ND	10	0.60	ND			20
beta-BHC [2C]	ND	10	0.60	ND			20
delta-BHC	ND	10	1.2	ND			20
delta-BHC [2C]	ND	10	1.2	ND			20
Dieldrin	68.1950	20	2.6	70.2750		3.00	20
Dieldrin [2C]	65.8400	20	2.6	65.6383		0.307	20
Endosulfan I	ND	10	1.0	ND			20
Endosulfan I [2C]	ND	10	1.0	ND			20
Endosulfan II	ND	20	1.5	ND			20
Endosulfan II [2C]	ND	20	1.5	ND			20
Endosulfan sulfate	ND	20	1.6	ND			20
Endosulfan Sulfate [2C]	ND	20	1.6	ND			20
Endrin	ND	20	1.4	ND			20



Certificate of Analysis

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Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
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Reported : 12/27/2018

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B8L0747 - GCSEMI_PCB/PEST_S (continued)
Duplicate (B8L0747-DUP1) - Continued
Source: 1804912-05

Prepared: 12/26/2018 Analyzed: 12/27/2018

Endrin [2C]	ND	20	1.4		ND			20		
Endrin aldehyde	ND	20	3.1		ND			20		
Endrin aldehyde [2C]	ND	20	3.1		ND			20		
Endrin ketone	ND	20	1.3		ND			20		
Endrin ketone [2C]	ND	20	1.3		ND			20		
gamma-BHC	ND	10	1.0		ND			20		
gamma-BHC [2C]	ND	10	1.0		ND			20		
gamma-Chlordane	173.037	10	8.9		186.035			7.24	20	
gamma-Chlordane [2C]	131.637	10	8.9		146.612			10.8	20	
Heptachlor	ND	10	1.2		ND			NR	20	
Heptachlor [2C]	ND	10	1.2		ND			NR	20	
Heptachlor epoxide	26.4483	10	0.89		37.8233			35.4	20	R3
Heptachlor epoxide [2C]	31.3867	10	0.89		36.8967			16.1	20	
Methoxychlor	ND	50	1.8		ND				20	
Methoxychlor [2C]	ND	50	1.8		ND				20	
<i>Surrogate: Decachlorobiphenyl</i>	12.71			16.6667		76.2	43 - 84			
<i>Surrogate: Decachlorobiphenyl /</i>	14.04			16.6667		84.3	43 - 84			S10
<i>Surrogate: Tetrachloro-m-xylene</i>	11.77			16.6667		70.6	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	11.05			16.6667		66.3	54 - 118			

Matrix Spike (B8L0747-MS1)
Source: 1804912-01

Prepared: 12/26/2018 Analyzed: 12/26/2018

4,4'-DDD	15.8255	2.0	0.07	16.6667	ND	95.0	73 - 110			
4,4'-DDD [2C]	14.3878	2.0	0.07	16.6667	ND	86.3	73 - 110			
4,4'-DDE	17.8575	2.0	0.11	16.6667	ND	107	71 - 99			M2
4,4'-DDE [2C]	11.3972	2.0	0.11	16.6667	ND	68.4	71 - 99			M2
4,4'-DDT	15.9515	2.0	0.10	16.6667	ND	95.7	51 - 106			
4,4'-DDT [2C]	12.6503	2.0	0.10	16.6667	ND	75.9	51 - 106			
Aldrin	13.6953	1.0	0.12	16.6667	ND	82.2	67 - 95			
Aldrin [2C]	10.4535	1.0	0.12	16.6667	ND	62.7	67 - 95			M2
alpha-BHC	14.4035	1.0	0.11	16.6667	ND	86.4	67 - 94			
alpha-BHC [2C]	12.0957	1.0	0.11	16.6667	ND	72.6	67 - 94			
alpha-Chlordane	21.5322	1.0	0.12	16.6667	2.91317	112	69 - 99			M2
alpha-Chlordane [2C]	30.0100	1.0	0.12	16.6667	10.2552	119	69 - 99			M2
beta-BHC	15.1140	1.0	0.06	16.6667	ND	90.7	67 - 99			
beta-BHC [2C]	13.1360	1.0	0.06	16.6667	ND	78.8	67 - 99			
delta-BHC	14.0487	1.0	0.12	16.6667	ND	84.3	73 - 103			
delta-BHC [2C]	12.2622	1.0	0.12	16.6667	ND	73.6	73 - 103			
Dieldrin	26.5545	2.0	0.26	16.6667	6.40617	121	65 - 93			M2
Dieldrin [2C]	26.7927	2.0	0.26	16.6667	6.44633	122	65 - 93			M2
Endosulfan I	19.0825	1.0	0.10	16.6667	ND	114	65 - 91			M2
Endosulfan I [2C]	10.0850	1.0	0.10	16.6667	ND	60.5	65 - 91			M2



Certificate of Analysis

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B8L0747 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B8L0747-MS1) - Continued		Source: 1804912-01			Prepared: 12/26/2018 Analyzed: 12/26/2018			
Endosulfan II	15.8923	2.0	0.15	16.6667	ND	95.4	65 - 102	
Endosulfan II [2C]	11.1937	2.0	0.15	16.6667	ND	67.2	65 - 102	
Endosulfan sulfate	13.2123	2.0	0.16	16.6667	ND	79.3	64 - 106	
Endosulfan Sulfate [2C]	10.7497	2.0	0.16	16.6667	ND	64.5	64 - 106	
Endrin	16.8110	2.0	0.14	16.6667	ND	101	64 - 111	
Endrin [2C]	12.1573	2.0	0.14	16.6667	ND	72.9	64 - 111	
Endrin aldehyde	16.1817	2.0	0.31	16.6667	ND	97.1	64 - 109	
Endrin aldehyde [2C]	9.44967	2.0	0.31	16.6667	ND	56.7	64 - 109	M2
Endrin ketone	12.3915	2.0	0.13	16.6667	ND	74.3	57 - 101	
Endrin ketone [2C]	11.9710	2.0	0.13	16.6667	ND	71.8	57 - 101	
gamma-BHC	13.4815	1.0	0.10	16.6667	ND	80.9	65 - 96	
gamma-BHC [2C]	12.1887	1.0	0.10	16.6667	ND	73.1	65 - 96	
gamma-Chlordane	26.3907	1.0	0.89	16.6667	6.95667	117	65 - 113	M2
gamma-Chlordane [2C]	14.0157	1.0	0.89	16.6667	1.86200	72.9	65 - 113	
Heptachlor	12.2212	1.0	0.12	16.6667	ND	73.3	61 - 96	
Heptachlor [2C]	11.5670	1.0	0.12	16.6667	ND	69.4	61 - 96	
Heptachlor epoxide	13.5093	1.0	0.09	16.6667	0.549333	77.8	64 - 89	
Heptachlor epoxide [2C]	11.8483	1.0	0.09	16.6667	0.655833	67.2	64 - 89	
Methoxychlor	12.5665	5.0	0.18	16.6667	ND	75.4	67 - 109	
Methoxychlor [2C]	12.3915	5.0	0.18	16.6667	ND	74.3	67 - 109	
Surrogate: Decachlorobiphenyl	11.33			16.6667		68.0	43 - 84	
Surrogate: Decachlorobiphenyl [	11.11			16.6667		66.7	43 - 84	
Surrogate: Tetrachloro-m-xylene	11.48			16.6667		68.9	54 - 118	
Surrogate: Tetrachloro-m-xylene	9.925			16.6667		59.5	54 - 118	

Matrix Spike Dup (B8L0747-MSD1)		Source: 1804912-01			Prepared: 12/26/2018 Analyzed: 12/26/2018				
4,4'-DDD	16.1912	2.0	0.07	16.6667	ND	97.1	73 - 110	2.28	20
4,4'-DDD [2C]	15.1260	2.0	0.07	16.6667	ND	90.8	73 - 110	5.00	20
4,4'-DDE	18.4702	2.0	0.11	16.6667	ND	111	71 - 99	3.37	20
4,4'-DDE [2C]	10.9848	2.0	0.11	16.6667	ND	65.9	71 - 99	3.68	20
4,4'-DDT	15.5380	2.0	0.10	16.6667	ND	93.2	51 - 106	2.63	20
4,4'-DDT [2C]	11.5427	2.0	0.10	16.6667	ND	69.3	51 - 106	9.16	20
Aldrin	15.8387	1.0	0.12	16.6667	ND	95.0	67 - 95	14.5	20
Aldrin [2C]	9.91200	1.0	0.12	16.6667	ND	59.5	67 - 95	5.32	20
alpha-BHC	14.6942	1.0	0.11	16.6667	ND	88.2	67 - 94	2.00	20
alpha-BHC [2C]	11.6163	1.0	0.11	16.6667	ND	69.7	67 - 94	4.04	20
alpha-Chlordane	20.7577	1.0	0.12	16.6667	2.91317	107	69 - 99	3.66	20
alpha-Chlordane [2C]	28.8372	1.0	0.12	16.6667	10.2552	111	69 - 99	3.99	20
beta-BHC	14.2378	1.0	0.06	16.6667	ND	85.4	67 - 99	5.97	20
beta-BHC [2C]	12.3852	1.0	0.06	16.6667	ND	74.3	67 - 99	5.88	20
delta-BHC	14.1942	1.0	0.12	16.6667	ND	85.2	73 - 103	1.03	20



Certificate of Analysis

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec	Limits	RPD	Limit	Notes
Batch B8L0747 - GCSEMI_PCB/PEST_S (continued)										
Matrix Spike Dup (B8L0747-MSD1) - Continued										
Source: 1804912-01										
Prepared: 12/26/2018										Analyzed: 12/26/2018
delta-BHC [2C]	11.6720	1.0	0.12	16.6667	ND	70.0	73 - 103	4.93	20	M2
Dieldrin	26.3237	2.0	0.26	16.6667	6.40617	120	65 - 93	0.873	20	M2
Dieldrin [2C]	26.2323	2.0	0.26	16.6667	6.44633	119	65 - 93	2.11	20	M2
Endosulfan I	18.9755	1.0	0.10	16.6667	ND	114	65 - 91	0.562	20	M2
Endosulfan I [2C]	9.59583	1.0	0.10	16.6667	ND	57.6	65 - 91	4.97	20	M2
Endosulfan II	15.9850	2.0	0.15	16.6667	ND	95.9	65 - 102	0.581	20	
Endosulfan II [2C]	10.6967	2.0	0.15	16.6667	ND	64.2	65 - 102	4.54	20	M2
Endosulfan sulfate	11.8220	2.0	0.16	16.6667	ND	70.9	64 - 106	11.1	20	
Endosulfan Sulfate [2C]	10.2038	2.0	0.16	16.6667	ND	61.2	64 - 106	5.21	20	M2
Endrin	13.4357	2.0	0.14	16.6667	ND	80.6	64 - 111	22.3	20	R3
Endrin [2C]	10.6065	2.0	0.14	16.6667	ND	63.6	64 - 111	13.6	20	M2
Endrin aldehyde	12.8515	2.0	0.31	16.6667	ND	77.1	64 - 109	22.9	20	R3
Endrin aldehyde [2C]	7.92283	2.0	0.31	16.6667	ND	47.5	64 - 109	17.6	20	M2
Endrin ketone	11.8942	2.0	0.13	16.6667	ND	71.4	57 - 101	4.10	20	
Endrin ketone [2C]	10.4962	2.0	0.13	16.6667	ND	63.0	57 - 101	13.1	20	
gamma-BHC	13.0690	1.0	0.10	16.6667	ND	78.4	65 - 96	3.11	20	
gamma-BHC [2C]	11.6312	1.0	0.10	16.6667	ND	69.8	65 - 96	4.68	20	
gamma-Chlordane	26.7828	1.0	0.89	16.6667	6.95667	119	65 - 113	1.48	20	M2
gamma-Chlordane [2C]	13.7287	1.0	0.89	16.6667	1.86200	71.2	65 - 113	2.07	20	
Heptachlor	12.0550	1.0	0.12	16.6667	ND	72.3	61 - 96	1.37	20	
Heptachlor [2C]	11.0660	1.0	0.12	16.6667	ND	66.4	61 - 96	4.43	20	
Heptachlor epoxide	14.7902	1.0	0.09	16.6667	0.549333	85.4	64 - 89	9.05	20	
Heptachlor epoxide [2C]	11.4040	1.0	0.09	16.6667	0.655833	64.5	64 - 89	3.82	20	
Methoxychlor	12.1490	5.0	0.18	16.6667	ND	72.9	67 - 109	3.38	20	
Methoxychlor [2C]	11.1383	5.0	0.18	16.6667	ND	66.8	67 - 109	10.7	20	M2
<i>Surrogate: Decachlorobiphenyl</i>	10.66			16.6667		64.0	43 - 84			
<i>Surrogate: Decachlorobiphenyl [</i>	10.49			16.6667		62.9	43 - 84			
<i>Surrogate: Tetrachloro-m-xylene</i>	10.65			16.6667		63.9	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	9.728			16.6667		58.4	54 - 118			



Certificate of Analysis

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Reported : 12/27/2018

Notes and Definitions

S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

CHAIN OF CUSTODY RECORD

Page 1 of 1

For Laboratory Use Only

ATLCOC Ver:20180321

Method of Transport	Sample Conditions Upon Receipt		
	Condition	Y	N
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	1. CHILLED	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	2. HEADSPACE (VOA)	<input type="checkbox"/>
<input type="checkbox"/> GSO		3. CONTAINER INTACT	<input type="checkbox"/>
<input type="checkbox"/> Other: _____		4. SEALED	<input type="checkbox"/>
		5. # OF SAMPLES MATCH COC	<input type="checkbox"/>
		6. PRESERVED	<input type="checkbox"/>
		7. COOLER TEMP, deg C: <u>25</u>	

Instruction: Complete all shaded areas.

Company: Leighton Consulting			Address: 17781 Cowan	Tel: 949-250-1421
SEND REPORT TO:			SEND INVOICE TO: <input type="checkbox"/> same as SEND REPORT TO	
Attn: Ross Surrency	Email: rsurrency@leightongroup.com	Attn: Accounts Payable	Email: acctpayable@leightongroup.com	EDD <input type="radio"/> Excel <input checked="" type="radio"/> Routine <input type="radio"/> EDF <input type="checkbox"/> Caltrans <input type="radio"/> Equis <input type="checkbox"/> Legal <input type="radio"/> _____ <input type="checkbox"/> RWQCB <input type="radio"/> _____ <input type="checkbox"/> Level IV
Company: Leighton Consulting	Address: 17781 Cowan	Company: Leighton Group	Address: 17781 Cowan	
City: Irvine	State: CA Zip: 92614	City: Irvine	State: CA Zip: 92614	

Project Name: LAUSD - Colfax ES		Quote #: D18J041	Special Instructions/Comments:		Requested Analysis					Sample Matrix			Container								
Project No.: 11640.008		PO #:	8081 (Organochlorine Pesticides)	8082 (PCBs)	8015 (GRO)	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Lead 6010B	Arsenic 6020	Mercury 7471A	TFH-DRO ORO (C13-C40) 8015	Soil <input checked="" type="checkbox"/>	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)
Sampler:															Quantity	Type: 1=Tube; 2=VOA; 3=Liter; 4=Print; 5=Fan; 6=Federal; 7=CalStar	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=AC; 5=ZnAc; 6=NaOH; 7=NaAc2O3	Remarks		
ITEM	Laboratory ID (For Lab Use Only)	Sample Description					Sample ID / Location	Date	Time						3	1	5	1	4		
1	18049102-01	PERI-SEZ-0.5					12/21/18	0812	X												
2	-02	PERI- SEZ- 1.5							0815				X								
3	-03	PERI- S- 0.5						0827	X												
4	-04	PERI- S- 1.5						0830				X									
5	-05	PERI-SWZ-0.5						0841	X												
6	↓ -06	PERI - SWZ - 1.0						0855			X										
7																					
8																					
9																					
10																					

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
 2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.
 3. The following turnaround time conditions apply:
 TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM
 TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
 TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
 TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
 TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
 TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
 4. Weekend, holiday, after-hours work -- ask for quote.
 5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective

- to the subcontract lab --- ask for quote.
 6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; air samples will be disposed of after 14 calendar days after receipt of samples.
 7. Electronic records maintained for five (5) years from report date.
 8. Hard copy reports will be disposed of after 45 calendar days from report date.
 9. Storage and Report Fees:
 Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
 Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
 Hard copy and regenerated reports/EDDS: \$17.50 per hard copy report requested; \$50.00 per

- regenerated/reformatted report; \$35 per reprocessed EDD.
 10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
 12. The laboratory will randomly select from all QC samples received the sample to spike for Matrix Spike/Matrix Spike Duplicate (MS/MSD) at no cost. However, if you want the laboratory to additionally perform MS/MSD on your sample, a charge will be assessed for the specific sample used.

Relinquished by: (Signature and Printed Name)	Date: 12/21/18	Time: 1010	Received by: (Signature and Printed Name)	Date: 12/21/18	Time: 1010
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.
Kevin C. Hall
 Printed Name
Kevin C. Hall
 Signature



January 02, 2019

Ross Surrency
Leighton Consulting, Inc.
17781 Cowan Street
Irvine, CA 92614
Tel: (949) 250-1421
Fax:(949) 757-7230

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003

Re: ATL Work Order Number : 1804912
Client Reference : LAUSD- Colfax ES, 11640.008

Enclosed are the results for sample(s) received on December 21, 2018 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie Rodriguez". To the right of the signature, the letters "fr" are written, likely indicating a formal response.

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 01/02/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PER1-SW2-1.0	1804912-06	Soil	12/21/18 8:55	12/21/18 10:10

CASE NARRATIVE

Results were J-flagged. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

DETECTION SUMMARY

Client Sample ID PER1-SW2-1.0

Lab ID: 1804912-06

Organochlorine Pesticides by EPA 8081

Analyst: CO

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time	Notes
alpha-Chlordane	63	5.0	0.59	5	B9A0010	12/31/2018	01/02/19 11:39	
Chlordane	440	42	5.5	5	B9A0010	12/31/2018	01/02/19 11:39	
Dieldrin	12	10	1.3	5	B9A0010	12/31/2018	01/02/19 11:39	
gamma-Chlordane [2C]	40	5.0	4.4	5	B9A0010	12/31/2018	01/02/19 11:39	



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Project Number : LAUSD- Colfax ES, 11640.008
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Client Sample ID PER1-SW2-1.0

Lab ID: 1804912-06

Organochlorine Pesticides by EPA 8081

Analyst: CO

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	10	0.35	5	B9A0010	12/31/2018	01/02/19 11:39	
4,4'-DDE	ND	10	0.54	5	B9A0010	12/31/2018	01/02/19 11:39	
4,4'-DDT	ND	10	0.50	5	B9A0010	12/31/2018	01/02/19 11:39	
Aldrin	ND	5.0	0.62	5	B9A0010	12/31/2018	01/02/19 11:39	
alpha-BHC	ND	5.0	0.53	5	B9A0010	12/31/2018	01/02/19 11:39	
alpha-Chlordane	63	5.0	0.59	5	B9A0010	12/31/2018	01/02/19 11:39	
beta-BHC	ND	5.0	0.30	5	B9A0010	12/31/2018	01/02/19 11:39	
Chlordane	440	42	5.5	5	B9A0010	12/31/2018	01/02/19 11:39	
delta-BHC	ND	5.0	0.62	5	B9A0010	12/31/2018	01/02/19 11:39	
Dieldrin	12	10	1.3	5	B9A0010	12/31/2018	01/02/19 11:39	
Endosulfan I	ND	5.0	0.50	5	B9A0010	12/31/2018	01/02/19 11:39	
Endosulfan II	ND	10	0.77	5	B9A0010	12/31/2018	01/02/19 11:39	
Endosulfan sulfate	ND	10	0.80	5	B9A0010	12/31/2018	01/02/19 11:39	
Endrin	ND	10	0.68	5	B9A0010	12/31/2018	01/02/19 11:39	
Endrin aldehyde	ND	10	1.6	5	B9A0010	12/31/2018	01/02/19 11:39	
Endrin ketone	ND	10	0.63	5	B9A0010	12/31/2018	01/02/19 11:39	
gamma-BHC	ND	5.0	0.52	5	B9A0010	12/31/2018	01/02/19 11:39	
gamma-Chlordane [2C]	40	5.0	4.4	5	B9A0010	12/31/2018	01/02/19 11:39	
Heptachlor	ND	5.0	0.59	5	B9A0010	12/31/2018	01/02/19 11:39	
Heptachlor epoxide	ND	5.0	0.44	5	B9A0010	12/31/2018	01/02/19 11:39	
Methoxychlor	ND	25	0.89	5	B9A0010	12/31/2018	01/02/19 11:39	
Toxaphene	ND	250	23	5	B9A0010	12/31/2018	01/02/19 11:39	
<i>Surrogate: Decachlorobiphenyl</i>	64.3 %		43 - 84		B9A0010	12/31/2018	01/02/19 11:39	
<i>Surrogate: Tetrachloro-m-xylene</i>	72.5 %		54 - 118		B9A0010	12/31/2018	01/02/19 11:39	



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Project Number : LAUSD- Colfax ES, 11640.008
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QUALITY CONTROL SECTION

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9A0010 - GCSEMI_PCB/PEST_S

Blank (B9A0010-BLK1)

Prepared: 12/31/2018 Analyzed: 1/2/2019

4,4'-DDD	ND	2.0	0.07							
4,4'-DDD [2C]	ND	2.0	0.07							
4,4'-DDE	ND	2.0	0.11							
4,4'-DDE [2C]	ND	2.0	0.11							
4,4'-DDT	ND	2.0	0.10							
4,4'-DDT [2C]	ND	2.0	0.10							
Aldrin	ND	1.0	0.12							
Aldrin [2C]	ND	1.0	0.12							
alpha-BHC	ND	1.0	0.11							
alpha-BHC [2C]	ND	1.0	0.11							
alpha-Chlordane	ND	1.0	0.12							
alpha-Chlordane [2C]	ND	1.0	0.12							
beta-BHC	ND	1.0	0.06							
beta-BHC [2C]	ND	1.0	0.06							
Chlordane	ND	8.5	1.1							
Chlordane [2C]	ND	8.5	1.1							
delta-BHC	ND	1.0	0.12							
delta-BHC [2C]	ND	1.0	0.12							
Dieldrin	ND	2.0	0.26							
Dieldrin [2C]	ND	2.0	0.26							
Endosulfan I	ND	1.0	0.10							
Endosulfan I [2C]	ND	1.0	0.10							
Endosulfan II	ND	2.0	0.15							
Endosulfan II [2C]	ND	2.0	0.15							
Endosulfan sulfate	ND	2.0	0.16							
Endosulfan Sulfate [2C]	ND	2.0	0.16							
Endrin	ND	2.0	0.14							
Endrin [2C]	ND	2.0	0.14							
Endrin aldehyde	ND	2.0	0.31							
Endrin aldehyde [2C]	ND	2.0	0.31							
Endrin ketone	ND	2.0	0.13							
Endrin ketone [2C]	ND	2.0	0.13							
gamma-BHC	ND	1.0	0.10							
gamma-BHC [2C]	ND	1.0	0.10							
gamma-Chlordane	ND	1.0	0.89							
gamma-Chlordane [2C]	ND	1.0	0.89							
Heptachlor	ND	1.0	0.12							
Heptachlor [2C]	ND	1.0	0.12							
Heptachlor epoxide	ND	1.0	0.09							



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Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9A0010 - GCSEMI_PCB/PEST_S (continued)
Blank (B9A0010-BLK1) - Continued

Prepared: 12/31/2018 Analyzed: 1/2/2019

Heptachlor epoxide [2C]	ND	1.0	0.09							
Methoxychlor	ND	5.0	0.18							
Methoxychlor [2C]	ND	5.0	0.18							
Toxaphene	ND	50	4.7							
Toxaphene [2C]	ND	50	4.7							
<i>Surrogate: Decachlorobiphenyl</i>	10.84			16.6667		65.0		43 - 84		
<i>Surrogate: Decachlorobiphenyl f</i>	10.62			16.6667		63.7		43 - 84		
<i>Surrogate: Tetrachloro-m-xylene</i>	11.28			16.6667		67.7		54 - 118		
<i>Surrogate: Tetrachloro-m-xylene</i>	11.94			16.6667		71.6		54 - 118		

LCS (B9A0010-BS1)

Prepared: 12/31/2018 Analyzed: 1/2/2019

4,4'-DDD	16.1442	2.0	0.07	16.6667		96.9		73 - 110		
4,4'-DDD [2C]	14.6753	2.0	0.07	16.6667		88.1		73 - 110		
4,4'-DDE	15.5615	2.0	0.11	16.6667		93.4		71 - 99		
4,4'-DDE [2C]	15.1607	2.0	0.11	16.6667		91.0		71 - 99		
4,4'-DDT	12.9487	2.0	0.10	16.6667		77.7		51 - 106		
4,4'-DDT [2C]	15.0292	2.0	0.10	16.6667		90.2		51 - 106		
Aldrin	13.0577	1.0	0.12	16.6667		78.3		67 - 95		
Aldrin [2C]	14.4683	1.0	0.12	16.6667		86.8		67 - 95		
alpha-BHC	13.3020	1.0	0.11	16.6667		79.8		67 - 94		
alpha-BHC [2C]	14.1887	1.0	0.11	16.6667		85.1		67 - 94		
alpha-Chlordane	15.3170	1.0	0.12	16.6667		91.9		69 - 99		
alpha-Chlordane [2C]	15.0642	1.0	0.12	16.6667		90.4		69 - 99		
beta-BHC	14.4295	1.0	0.06	16.6667		86.6		67 - 99		
beta-BHC [2C]	14.6652	1.0	0.06	16.6667		88.0		67 - 99		
delta-BHC	15.1262	1.0	0.12	16.6667		90.8		73 - 103		
delta-BHC [2C]	15.0205	1.0	0.12	16.6667		90.1		73 - 103		
Dieldrin	13.8225	2.0	0.26	16.6667		82.9		65 - 93		
Dieldrin [2C]	13.2813	2.0	0.26	16.6667		79.7		65 - 93		
Endosulfan I	14.3960	1.0	0.10	16.6667		86.4		65 - 91		
Endosulfan I [2C]	13.8900	1.0	0.10	16.6667		83.3		65 - 91		
Endosulfan II	15.7413	2.0	0.15	16.6667		94.4		65 - 102		
Endosulfan II [2C]	15.5233	2.0	0.15	16.6667		93.1		65 - 102		
Endosulfan sulfate	14.7380	2.0	0.16	16.6667		88.4		64 - 106		
Endosulfan Sulfate [2C]	14.4813	2.0	0.16	16.6667		86.9		64 - 106		
Endrin	15.7947	2.0	0.14	16.6667		94.8		64 - 111		
Endrin [2C]	14.7912	2.0	0.14	16.6667		88.7		64 - 111		
Endrin aldehyde	15.4152	2.0	0.31	16.6667		92.5		64 - 109		
Endrin aldehyde [2C]	11.4538	2.0	0.31	16.6667		68.7		64 - 109		
Endrin ketone	14.7732	2.0	0.13	16.6667		88.6		57 - 101		
Endrin ketone [2C]	14.2802	2.0	0.13	16.6667		85.7		57 - 101		



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B9A0010 - GCSEMI_PCB/PEST_S (continued)
LCS (B9A0010-BS1) - Continued

Prepared: 12/31/2018 Analyzed: 1/2/2019

gamma-BHC	13.9995	1.0	0.10	16.6667		84.0	65 - 96			
gamma-BHC [2C]	14.0143	1.0	0.10	16.6667		84.1	65 - 96			
gamma-Chlordane	15.6818	1.0	0.89	16.6667		94.1	65 - 113			
gamma-Chlordane [2C]	14.9582	1.0	0.89	16.6667		89.7	65 - 113			
Heptachlor	14.9030	1.0	0.12	16.6667		89.4	61 - 96			
Heptachlor [2C]	14.6573	1.0	0.12	16.6667		87.9	61 - 96			
Heptachlor epoxide	13.8850	1.0	0.09	16.6667		83.3	64 - 89			
Heptachlor epoxide [2C]	13.9490	1.0	0.09	16.6667		83.7	64 - 89			
Methoxychlor	16.7568	5.0	0.18	16.6667		101	67 - 109			
Methoxychlor [2C]	13.5067	5.0	0.18	16.6667		81.0	67 - 109			
<i>Surrogate: Decachlorobiphenyl</i>	12.99			16.6667		78.0	43 - 84			
<i>Surrogate: Decachlorobiphenyl [</i>	12.01			16.6667		72.0	43 - 84			
<i>Surrogate: Tetrachloro-m-xylene</i>	13.45			16.6667		80.7	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	12.97			16.6667		77.8	54 - 118			

Duplicate (B9A0010-DUP1)
Source: 1804912-06

Prepared: 12/31/2018 Analyzed: 1/2/2019

4,4'-DDD	ND	10	0.35	ND				20		
4,4'-DDD [2C]	ND	10	0.35	ND				20		
4,4'-DDE	ND	10	0.54	ND				20		
4,4'-DDE [2C]	ND	10	0.54	ND				20		
4,4'-DDT	ND	10	0.50	ND				20		
4,4'-DDT [2C]	ND	10	0.50	ND				20		
Aldrin	ND	5.0	0.62	ND				20		
Aldrin [2C]	ND	5.0	0.62	ND				20		
alpha-BHC	ND	5.0	0.53	ND				20		
alpha-BHC [2C]	ND	5.0	0.53	ND				20		
alpha-Chlordane	44.7583	5.0	0.59	62.9025			33.7	20	R3	
alpha-Chlordane [2C]	77.1783	5.0	0.59	107.352			32.7	20	R3	
beta-BHC	ND	5.0	0.30	ND				20		
beta-BHC [2C]	ND	5.0	0.30	ND				20		
delta-BHC	ND	5.0	0.62	ND				20		
delta-BHC [2C]	ND	5.0	0.62	ND				20		
Dieldrin	8.79917	10	1.3	12.3167			33.3	20	R3, J	
Dieldrin [2C]	9.08167	10	1.3	12.2292			29.5	20	R3, J	
Endosulfan I	ND	5.0	0.50	ND				20		
Endosulfan I [2C]	ND	5.0	0.50	ND				20		
Endosulfan II	ND	10	0.77	ND				20		
Endosulfan II [2C]	ND	10	0.77	ND				20		
Endosulfan sulfate	ND	10	0.80	ND				20		
Endosulfan Sulfate [2C]	ND	10	0.80	ND				20		
Endrin	ND	10	0.68	ND				20		



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Project Number : LAUSD- Colfax ES, 11640.008
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Reported : 01/02/2019

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	Limits	RPD RPD	Limit Limit	Notes
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Batch B9A0010 - GCSEMI_PCB/PEST_S (continued)
Duplicate (B9A0010-DUP1) - Continued
Source: 1804912-06

Prepared: 12/31/2018 Analyzed: 1/2/2019

Endrin [2C]	ND	10	0.68		ND			20		
Endrin aldehyde	ND	10	1.6		ND			20		
Endrin aldehyde [2C]	ND	10	1.6		ND			20		
Endrin ketone	ND	10	0.63		ND			20		
Endrin ketone [2C]	ND	10	0.63		ND			20		
gamma-BHC	ND	5.0	0.52		ND			20		
gamma-BHC [2C]	ND	5.0	0.52		ND			20		
gamma-Chlordane	27.6117	5.0	4.4		39.4708			35.4	20	R3
gamma-Chlordane [2C]	28.8642	5.0	4.4		40.2867			33.0	20	R3
Heptachlor	ND	5.0	0.59		ND			20		
Heptachlor [2C]	ND	5.0	0.59		ND			20		
Heptachlor epoxide	ND	5.0	0.44		ND			20		
Heptachlor epoxide [2C]	ND	5.0	0.44		ND			20		
Methoxychlor	ND	25	0.89		ND			20		
Methoxychlor [2C]	ND	25	0.89		ND			20		
<i>Surrogate: Decachlorobiphenyl</i>	5.435			16.6667		32.6	43 - 84			S10
<i>Surrogate: Decachlorobiphenyl /</i>	7.524			16.6667		45.1	43 - 84			
<i>Surrogate: Tetrachloro-m-xylene</i>	9.485			16.6667		56.9	54 - 118			
<i>Surrogate: Tetrachloro-m-xylene</i>	6.838			16.6667		41.0	54 - 118			S10

Matrix Spike (B9A0010-MS1)
Source: 1804912-06

Prepared: 12/31/2018 Analyzed: 1/2/2019

4,4'-DDD	9.86500	10	0.35	16.6667	ND	59.2	73 - 110		J, M2
4,4'-DDD [2C]	8.15000	10	0.35	16.6667	ND	48.9	73 - 110		J, M2
4,4'-DDE	10.6550	10	0.54	16.6667	ND	63.9	71 - 99		M2
4,4'-DDE [2C]	10.1000	10	0.54	16.6667	ND	60.6	71 - 99		M2
4,4'-DDT	8.47333	10	0.50	16.6667	ND	50.8	51 - 106		J, M2
4,4'-DDT [2C]	10.2058	10	0.50	16.6667	ND	61.2	51 - 106		
Aldrin	9.98417	5.0	0.62	16.6667	ND	59.9	67 - 95		M2
Aldrin [2C]	10.5917	5.0	0.62	16.6667	ND	63.6	67 - 95		M2
alpha-BHC	9.67833	5.0	0.53	16.6667	ND	58.1	67 - 94		M2
alpha-BHC [2C]	9.92000	5.0	0.53	16.6667	ND	59.5	67 - 94		M2
alpha-Chlordane	62.5475	5.0	0.59	16.6667	62.9025	-2.13	69 - 99		M2
alpha-Chlordane [2C]	113.581	5.0	0.59	16.6667	107.352	37.4	69 - 99		M2
beta-BHC	9.25417	5.0	0.30	16.6667	ND	55.5	67 - 99		M2
beta-BHC [2C]	9.87750	5.0	0.30	16.6667	ND	59.3	67 - 99		M2
delta-BHC	7.42167	5.0	0.62	16.6667	ND	44.5	73 - 103		M2
delta-BHC [2C]	7.00500	5.0	0.62	16.6667	ND	42.0	73 - 103		M2
Dieldrin	20.7458	10	1.3	16.6667	12.3167	50.6	65 - 93		M2
Dieldrin [2C]	23.4625	10	1.3	16.6667	12.2292	67.4	65 - 93		
Endosulfan I	10.3767	5.0	0.50	16.6667	ND	62.3	65 - 91		M2
Endosulfan I [2C]	9.50667	5.0	0.50	16.6667	ND	57.0	65 - 91		M2



Certificate of Analysis

Leighton Consulting, Inc.
17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD- Colfax ES, 11640.008
Report To : Ross Surrency
Reported : 01/02/2019

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9A0010 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B9A0010-MS1) - Continued		Source: 1804912-06			Prepared: 12/31/2018 Analyzed: 1/2/2019				
Endosulfan II	4.78750	10	0.77	16.6667	ND	28.7	65 - 102		J, M2
Endosulfan II [2C]	5.60500	10	0.77	16.6667	ND	33.6	65 - 102		J, M2
Endosulfan sulfate	2.87500	10	0.80	16.6667	ND	17.2	64 - 106		J, M2
Endosulfan Sulfate [2C]	7.65083	10	0.80	16.6667	ND	45.9	64 - 106		J, M2
Endrin	9.51917	10	0.68	16.6667	ND	57.1	64 - 111		J, M2
Endrin [2C]	9.59500	10	0.68	16.6667	ND	57.6	64 - 111		J, M2
Endrin aldehyde	3.74000	10	1.6	16.6667	ND	22.4	64 - 109		J, M2
Endrin aldehyde [2C]	5.11167	10	1.6	16.6667	ND	30.7	64 - 109		J, M2
Endrin ketone	2.81667	10	0.63	16.6667	ND	16.9	57 - 101		J, M2
Endrin ketone [2C]	2.37500	10	0.63	16.6667	ND	14.2	57 - 101		J, M2
gamma-BHC	9.55250	5.0	0.52	16.6667	ND	57.3	65 - 96		M2
gamma-BHC [2C]	9.93167	5.0	0.52	16.6667	ND	59.6	65 - 96		M2
gamma-Chlordane	37.1142	5.0	4.4	16.6667	39.4708	-14.1	65 - 113		M2
gamma-Chlordane [2C]	43.9850	5.0	4.4	16.6667	40.2867	22.2	65 - 113		M2
Heptachlor	10.0500	5.0	0.59	16.6667	ND	60.3	61 - 96		M2
Heptachlor [2C]	9.57917	5.0	0.59	16.6667	ND	57.5	61 - 96		M2
Heptachlor epoxide	18.8633	5.0	0.44	16.6667	ND	113	64 - 89		M2
Heptachlor epoxide [2C]	20.1992	5.0	0.44	16.6667	ND	121	64 - 89		M2
Methoxychlor	4.80083	25	0.89	16.6667	ND	28.8	67 - 109		J, M2
Methoxychlor [2C]	6.43500	25	0.89	16.6667	ND	38.6	67 - 109		M2, J
Surrogate: Decachlorobiphenyl	8.945			16.6667		53.7	43 - 84		
Surrogate: Decachlorobiphenyl [	10.05			16.6667		60.3	43 - 84		
Surrogate: Tetrachloro-m-xylene	9.450			16.6667		56.7	54 - 118		
Surrogate: Tetrachloro-m-xylene	9.626			16.6667		57.8	54 - 118		

Matrix Spike Dup (B9A0010-MSD1)		Source: 1804912-06			Prepared: 12/31/2018 Analyzed: 1/2/2019					
4,4'-DDD	10.6042	10	0.35	16.6667	ND	63.6	73 - 110	7.22	20	M2
4,4'-DDD [2C]	12.6192	10	0.35	16.6667	ND	75.7	73 - 110	43.0	20	R3
4,4'-DDE	10.9583	10	0.54	16.6667	ND	65.7	71 - 99	2.81	20	M2
4,4'-DDE [2C]	11.2108	10	0.54	16.6667	ND	67.3	71 - 99	10.4	20	M2
4,4'-DDT	8.36250	10	0.50	16.6667	ND	50.2	51 - 106	1.32	20	M2, J
4,4'-DDT [2C]	8.13417	10	0.50	16.6667	ND	48.8	51 - 106	22.6	20	M2, R3, J
Aldrin	11.1933	5.0	0.62	16.6667	ND	67.2	67 - 95	11.4	20	
Aldrin [2C]	10.4550	5.0	0.62	16.6667	ND	62.7	67 - 95	1.30	20	M2
alpha-BHC	9.49250	5.0	0.53	16.6667	ND	57.0	67 - 94	1.94	20	M2
alpha-BHC [2C]	9.59000	5.0	0.53	16.6667	ND	57.5	67 - 94	3.38	20	M2
alpha-Chlordane	62.3550	5.0	0.59	16.6667	62.9025	-3.29	69 - 99	0.308	20	M2
alpha-Chlordane [2C]	103.924	5.0	0.59	16.6667	107.352	-20.6	69 - 99	8.88	20	M2
beta-BHC	9.33167	5.0	0.30	16.6667	ND	56.0	67 - 99	0.834	20	M2
beta-BHC [2C]	9.64333	5.0	0.30	16.6667	ND	57.9	67 - 99	2.40	20	M2
delta-BHC	7.41583	5.0	0.62	16.6667	ND	44.5	73 - 103	0.0786	20	M2



Certificate of Analysis

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Project Number : LAUSD- Colfax ES, 11640.008
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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B9A0010 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B9A0010-MSD1) - Continued		Source: 1804912-06		Prepared: 12/31/2018 Analyzed: 1/2/2019						
delta-BHC [2C]	7.18167	5.0	0.62	16.6667	ND	43.1	73 - 103	2.49	20	M2
Dieldrin	20.8925	10	1.3	16.6667	12.3167	51.5	65 - 93	0.704	20	M2
Dieldrin [2C]	21.6500	10	1.3	16.6667	12.2292	56.5	65 - 93	8.04	20	M2
Endosulfan I	9.56500	5.0	0.50	16.6667	ND	57.4	65 - 91	8.14	20	M2
Endosulfan I [2C]	9.90417	5.0	0.50	16.6667	ND	59.4	65 - 91	4.10	20	M2
Endosulfan II	5.06583	10	0.77	16.6667	ND	30.4	65 - 102	5.65	20	M2, J
Endosulfan II [2C]	3.36417	10	0.77	16.6667	ND	20.2	65 - 102	50.0	20	M2, R3, J
Endosulfan sulfate	3.94000	10	0.80	16.6667	ND	23.6	64 - 106	31.3	20	M2, R3, J
Endosulfan Sulfate [2C]	3.38083	10	0.80	16.6667	ND	20.3	64 - 106	77.4	20	M2, R3, J
Endrin	10.4892	10	0.68	16.6667	ND	62.9	64 - 111	9.70	20	M2
Endrin [2C]	10.3983	10	0.68	16.6667	ND	62.4	64 - 111	8.04	20	M2
Endrin aldehyde	3.79083	10	1.6	16.6667	ND	22.7	64 - 109	1.35	20	M2, J
Endrin aldehyde [2C]	2.94667	10	1.6	16.6667	ND	17.7	64 - 109	53.7	20	M2, R3, J
Endrin ketone	3.29500	10	0.63	16.6667	ND	19.8	57 - 101	15.7	20	M2, J
Endrin ketone [2C]	3.39000	10	0.63	16.6667	ND	20.3	57 - 101	35.2	20	M2, R3, J
gamma-BHC	9.49417	5.0	0.52	16.6667	ND	57.0	65 - 96	0.613	20	M2
gamma-BHC [2C]	9.60250	5.0	0.52	16.6667	ND	57.6	65 - 96	3.37	20	M2
gamma-Chlordane	36.5392	5.0	4.4	16.6667	39.4708	-17.6	65 - 113	1.56	20	M2
gamma-Chlordane [2C]	40.2750	5.0	4.4	16.6667	40.2867	-0.0700	65 - 113	8.81	20	M2
Heptachlor	10.0417	5.0	0.59	16.6667	ND	60.3	61 - 96	0.0829	20	M2
Heptachlor [2C]	9.17250	5.0	0.59	16.6667	ND	55.0	61 - 96	4.34	20	M2
Heptachlor epoxide	17.4133	5.0	0.44	16.6667	ND	104	64 - 89	7.99	20	M2
Heptachlor epoxide [2C]	18.1917	5.0	0.44	16.6667	ND	109	64 - 89	10.5	20	M2
Methoxychlor	8.34250	25	0.89	16.6667	ND	50.1	67 - 109	53.9	20	M2, R3, J
Methoxychlor [2C]	5.92167	25	0.89	16.6667	ND	35.5	67 - 109	8.31	20	M2, J
Surrogate: Decachlorobiphenyl	10.91			16.6667		65.4	43 - 84			
Surrogate: Decachlorobiphenyl [	10.52			16.6667		63.1	43 - 84			
Surrogate: Tetrachloro-m-xylene	9.168			16.6667		55.0	54 - 118			
Surrogate: Tetrachloro-m-xylene	9.130			16.6667		54.8	54 - 118			



Certificate of Analysis

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Project Number : LAUSD- Colfax ES, 11640.008
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Notes and Definitions

S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
R3	RPD value outside acceptance criteria. Calculation is based on raw values. The analytical batch was validated by the Laboratory Control Sample (LCS).
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
- (3) Results are wet unless otherwise specified.

Dominic Mata

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Thursday, December 27, 2018 4:02 PM
To: Dominic Mata
Subject: RE: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804912)

Dominic,

Thanks for this report. Please analyze sample PER1-SW2-1.0 that is on hold. Analyze for OCPs by 8081.

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell

Geotechnical | Geoenvironmental | Materials Testing

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From: Dominic Mata [mailto:dominic@atlglobal.com]
Sent: Thursday, December 27, 2018 3:28 PM
To: Ross Surrency
Cc: Kevin Hall; customer.relations@atlglobal.com
Subject: Results - LAUSD-Colfax ES, 11640.008 (ATL# 1804912)

Good afternoon Ross,

Please find your results for the above project attached. If I can further assist, please let me know.

Thanks,



Dominic Mata | Project Coordinator
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext. 238 | <http://www.atlglobal.com>

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APPENDIX E

WASTE DISPOSAL DOCUMENTATION



Leighton

NO. 747731

NON-HAZARDOUS WASTE DATA FORM

BESI #

300284

GENERATOR	Generator's Name and Mailing Address L.A.U.S.D. - OEHS ATTN: ANDREW MODUGNO 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA. 90017		Generator's Site Address (if different than mailing address) LAUSD - COLFAX ELEMENTARY SCHOOL 11724 ADDISON ST. VALLEY VILLAGE, CA. 91807		
	Generator's Phone: <u>213-241-3190</u>				
	Container type removed from site: <input checked="" type="checkbox"/> Drums <input type="checkbox"/> Vacuum Truck <input type="checkbox"/> Roll-off Truck <input type="checkbox"/> Dump Truck <input type="checkbox"/> Other _____		Container type transported to receiving facility: <input type="checkbox"/> Drums <input checked="" type="checkbox"/> Vacuum Truck <input type="checkbox"/> Roll-off Truck <input type="checkbox"/> Dump Truck <input type="checkbox"/> Other _____		
	Quantity _____		Quantity _____		Volume _____
	WASTE DESCRIPTION <u>NON-HAZARDOUS WATER</u>		GENERATING PROCESS <u>WELL PURGING / DECON WATER</u>		
	COMPONENTS OF WASTE		PPM	%	COMPONENTS OF WASTE
	1. WATER		99-100%		3. _____
	2. TPH		<1%		4. _____
	Waste Profile _____		PROPERTIES: pH <u>7-10</u> <input type="checkbox"/> SOLID <input checked="" type="checkbox"/> LIQUID <input type="checkbox"/> SLUDGE <input type="checkbox"/> SLURRY <input type="checkbox"/> OTHER _____		
	HANDLING INSTRUCTIONS: _____				
Generator Printed/Typed Name <i>John B. Babbal</i>		Signature <i>JPB</i>		Month Day Year <i>11/26/18</i>	
The Generator certifies that the waste as described is 100% non-hazardous					
TRANSPORTER	Transporter 1 Company Name BELSHIRE		Phone# 949-460-5200		
	Transporter 1 Printed/Typed Name <i>Carlos Villa</i>		Signature <i>Carlos Villa</i>		
	Transporter Acknowledgment of Receipt of Materials				
	Transporter 2 Company Name NIETO & SONS TRUCKING, INC.		Phone# 714-980-0855		
	Transporter 2 Printed/Typed Name _____		Signature _____		
Transporter Acknowledgment of Receipt of Materials					
RECEIVING FACILITY	Designated Facility Name and Site Address DEMENNO KERDOON 2000 N. ALAMEDA ST. COMPTON, CA. 90222		Phone# 310-537-7100		
	Printed/Typed Name _____		Signature _____		
			Month Day Year _____		
Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.					

APPENDIX F

PROUCL OUTPUT SPREADSHEET



Leighton

	A	B	C	D	E	F	G	H	I	J	K	L									
1	UCL Statistics for Uncensored Full Data Sets																				
2	User Selected Options																				
3	Date/Time of Computation ProUCL 5.111/19/2018 2:42:30 PM																				
4	From File Colfax Arsenic Data.xls																				
5	Full Precision OFF																				
6	Confidence Coefficient 95%																				
7	Number of Bootstrap Operations 2000																				
8																					
9																					
10																					
11	Arsenic Concentrations (mg/kg)																				
12																					
13	General Statistics																				
14	Total Number of Observations 42			Number of Distinct Observations 35																	
15				Number of Missing Observations 0																	
16	Minimum 0.98			Mean 5.319																	
17	Maximum 13			Median 4.5																	
18	SD 3.172			Std. Error of Mean 0.489																	
19	Coefficient of Variation 0.596			Skewness 0.818																	
20																					
21	Normal GOF Test																				
22	Shapiro Wilk Test Statistic 0.88			Shapiro Wilk GOF Test																	
23	5% Shapiro Wilk Critical Value 0.942			Data Not Normal at 5% Significance Level																	
24	Lilliefors Test Statistic 0.149			Lilliefors GOF Test																	
25	5% Lilliefors Critical Value 0.135			Data Not Normal at 5% Significance Level																	
26	Data Not Normal at 5% Significance Level																				
27																					
28	Assuming Normal Distribution																				
29	95% Normal UCL			95% UCLs (Adjusted for Skewness)																	
30	95% Student's-t UCL 6.142			95% Adjusted-CLT UCL (Chen-1995) 6.189																	
31				95% Modified-t UCL (Johnson-1978) 6.152																	
32																					
33	Gamma GOF Test																				
34	A-D Test Statistic 0.188			Anderson-Darling Gamma GOF Test																	
35	5% A-D Critical Value 0.756			Detected data appear Gamma Distributed at 5% Significance Level																	
36	K-S Test Statistic 0.0717			Kolmogorov-Smirnov Gamma GOF Test																	
37	5% K-S Critical Value 0.137			Detected data appear Gamma Distributed at 5% Significance Level																	
38	Detected data appear Gamma Distributed at 5% Significance Level																				
39																					
40	Gamma Statistics																				
41	k hat (MLE) 2.808			k star (bias corrected MLE) 2.623																	
42	Theta hat (MLE) 1.894			Theta star (bias corrected MLE) 2.027																	
43	nu hat (MLE) 235.9			nu star (bias corrected) 220.4																	
44	MLE Mean (bias corrected) 5.319			MLE Sd (bias corrected) 3.284																	
45				Approximate Chi Square Value (0.05) 187																	
46	Adjusted Level of Significance 0.0443			Adjusted Chi Square Value 185.9																	
47																					
48	Assuming Gamma Distribution																				
49	95% Approximate Gamma UCL (use when n>=50) 6.267			95% Adjusted Gamma UCL (use when n<50) 6.304																	
50																					
51	Lognormal GOF Test																				
52	Shapiro Wilk Test Statistic 0.924			Shapiro Wilk Lognormal GOF Test																	

