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

Date: September 6, 2019
Leighton Project No. 11640.011

Attention: Mr. Andrew Modugno

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Subject: Supplemental Site Investigation Report, Northern Portion of David Starr
Jordan High School, 2265 E. 103rd Street, Los Angeles, California 90002

LEIGHTON CONSULTING, INC.

By: Ross Surrency, PG

Distribution: Addressee

SUPPLEMENTAL SITE INVESTIGATION
NORTHERN PORTION OF
DAVID STARR JORDAN HIGH SCHOOL
2265 E. 103RD STREET
LOS ANGELES, CALIFORNIA 90002

Prepared For:

LOS ANGELES UNIFIED SCHOOL DISTRICT

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

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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
Northern Portion of David Starr Jordan High School
103rd Street, Los Angeles, California 91607**

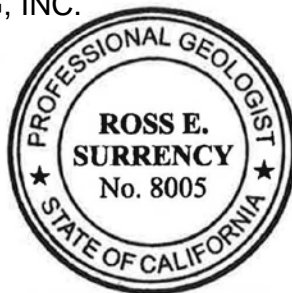
Leighton Consulting, Inc. is pleased to present this Supplemental Site Investigation Report for the subject site which documents historical site land use and previous environmental investigations, outlines the approach and data collected as part of the recently concluded site assessment, and recommends modifications to proposed remedial soil excavation limits described in the Removal Action Workplan.

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.

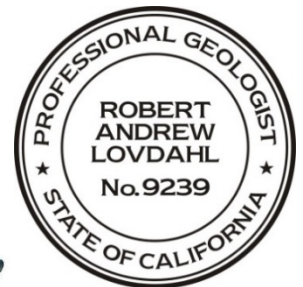
Respectfully submitted,

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TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
LIST OF ABBREVIATIONS/ACRONYMS	III
EXECUTIVE SUMMARY	1
1.0 INTRODUCTION	1
1.1 Site Description.....	1
1.2 Background.....	2
1.3 Regional Geology and Hydrogeology	3
1.3.1 Geology	3
1.3.2 Hydrogeology	3
1.4 Previous Environmental Investigations and Remedial Efforts.....	3
1.4.1 2002-2005 Phase I and Emergency Excavation	3
1.4.2 2016 Limited Soil Screening.....	4
1.4.3 2017 Soil Screening Investigation on NW Portion of Subject Site	5
1.4.4 2018 Supplemental Soil Investigation	5
1.4.5 Removal Action Workplan	6
2.0 SAMPLING ACTIVITIES	7
2.1 Objectives	7
2.2 Utility Clearance.....	7
2.3 Health & Safety Plan.....	8
2.4 Field Procedures.....	8
2.4.1 Sample Collection and Analysis	8
2.4.2 Sample Handling and Storage	10
2.4.3 Sample Custody	10
2.4.4 Equipment Decontamination	11
2.5 Laboratory Quality Control	11
2.6 Abandonment of Soil Borings	11
2.7 Investigation Derived Waste Management	11
3.0 FINDINGS	13
3.1 Arsenic.....	14
3.2 Lead.....	14
3.3 Waste Characterization.....	14
3.4 Waste Profile Samples.....	15
4.0 HUMAN HEALTH SCREENING EVALUATION	16
5.0 CONCLUSIONS AND RECOMMENDATIONS	18
6.0 LIMITATIONS.....	22

List of Accompanying Figures, Tables and Appendices

Figure 1 – Site Location Map

Figure 2 – Site Plan

Figure 3 – Proposed Soil Excavation Areas and Soil Sample Locations

Figure 4 – Step-Out Sample Results Exceeding Screening Levels – Area 1

Figure 5 – Step-Out Sample Results Exceeding Screening Levels – Area 2

Figure 6 – Step-Out Sample Results Exceeding Screening Levels – Area 3

Figure 7 – Step-Out Sample Results Exceeding Screening Levels – Area 4

Table 1 – Arsenic and Lead Analytical Results for Step-Out Soil Samples

Appendix A - References

Appendix B - Boring Logs

Appendix C - Photographic Log

Appendix D - Laboratory Analytical Reports

Appendix E - Waste Manifest

Appendix F - Data Summary Tables and Laboratory Analytical Reports for Waste Profile
Samples

LIST OF ABBREVIATIONS/ACRONYMS

ATL	Advanced Technology Laboratories
bgs	Below ground surface
Cal/EPA	California Environmental Protection Agency
CAM	Code of Administration Manual
CCR	California Code of Regulations
CDPH	California Department of Public Health
CGS	California Geological Survey
COC	Chemical of concern
District	Los Angeles Unified School District
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control
DTSC SL	DTSL-Modified Screening Level
DWR	Department of Water Resources
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
ESL	SFRWQCB Environmental Screening Level
HASP	Site-specific health and safety plan
HHSE	Human Health Screening Evaluation
IDW	Investigation derived waste
JDRP	Jordan Downs Redevelopment Project
LARWQCB	Los Angeles Regional Water Quality Control Board
LAUSD	Los Angeles Unified School District
Leighton	Leighton Consulting Inc.
mg/kg	Milligram per kilogram
mg/L	Milligram per liter
MDL	Method detection limit
Millennium	Millennium Environmental, Inc.
OCPs	Organochlorine pesticides
OEHS	Office of Environmental Health and Safety
PCBs	Polychlorinated Biphenyls
PPE	Personal protective equipment
RAW	Removal Action Workplan
RAG	Removal Action Goal
RAOs	Removal Action Objectives

RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
RSL	US EPA Regional Screening Level (residential)
School property	David Starr Jordan High School Campus
Site	Northern Portion of David Starr Jordan High School
SSI	Supplemental Site Investigation
STLC	Soluble threshold limit concentration
TPH	Total petroleum hydrocarbons
TPH-d	Total petroleum hydrocarbons as diesel
TPH-g	Total petroleum hydrocarbons as gasoline
TPH-o	Total petroleum hydrocarbons as oil
TCLP	Toxicity threshold limit concentration
TTCL	Total threshold limit concentration
UCL	Upper confidence limit
UTL	Upper tolerance limit
USA	Underground Service Alert
VOC	Volatile organic compound
WET	Waste extraction test

EXECUTIVE SUMMARY

The Site occupies an approximately 2.8-acre area located in the northern portion of David Starr Jordan Senior High School (Figures 1 and 2). The Site is currently a softball field and a largely unused asphalt-paved area (former basketball and tennis courts). Future Site usage will include a softball field, four (4) new tennis courts, two (2) futsal courts, and two (2) volleyball courts. There are no current plans to build structures on the Site.

The District has submitted a Final Removal Action Workplan (RAW) which proposes soil excavations at forty-five (45) individual removal areas to address shallow soil that is impacted by chemicals of concern (COCs) at concentrations above the Removal Action Goals (RAGs) (Leighton, 2019). As part of this assessment, step-out soil samples were collected within or directly adjacent to the limits of 17 of the 45 proposed removal areas in the RAW to evaluate if the proposed soil excavations will achieve removal action objectives (RAOs) or if removal areas will require significant modification (Figure 2).

On April 15 and 16, 2019, a total of 52 step-out soil borings were advanced by Millennium Environmental, Inc. (Millennium), a State of California licensed driller, using hand-auger tools (Figure 3). Each boring was advanced to a maximum depth of three (3) to five (5) feet below ground surface (bgs). Soil samples were generally collected from the borings at 0.5, 1.5, 3, and 5 feet bgs, where feasible. A total of 136 soil samples were analyzed for arsenic by Environmental Protection Agency (EPA) Method 6020 and 119 soil samples were analyzed for lead by EPA Method 6010B. During a separate field effort on May 24, 2019, 14 soil borings were advanced to 1.5 feet bgs at various locations across the Site for the purpose of obtaining additional laboratory data to profile the soil for disposal prior to the planned removal action.

Step-out sample results identified concentrations of arsenic and lead above RAGs. Step-out sample locations with analytical results exceeding RAGs are identified on Figures 4 through 7. Based on the analytical results, Leighton recommends that the lateral and vertical limits of select soil removal areas (excavations) proposed in the RAW be modified, where appropriate, to achieve RAOs. In addition, waste characterization analyses conducted on select step-out samples indicates additional California-regulated hazardous waste will be generated at several of the proposed soil excavations than was previously anticipated in the RAW (Leighton, 2019). Specific recommended modifications for the soil excavations and soil handling are discussed in Section 5.0.

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 on the northern portion of David Starr Jordan High School (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 from this report are listed in Appendix A.

1.1 Site Description

Site Name: David Starr Jordan Senior High School (includes Animo College Preparatory Charter High School).

Address: 2265 East 103rd Street, Los Angeles, California 90002 (see Site Location Map - Figure 1).

Site Size: The high school property is approximately 19 acres total in size. The Site, for the purposes of this investigation, is an approximate 2.8-acre area located in the northern portion of the high school property.

Description: The Site is further described as the area north of the football field and bleachers plus the softball field. Except for the softball field, the remainder of the Site is partially covered with older asphalt pavement, and was formerly used for basketball and tennis courts (see Site Plan in Figure 2 and Photos No. 1 and No. 2 in Appendix C).

The Site is bounded to the north by a large, newly constructed block wall and, on the other side of it, Jordan Downs Redevelopment Project (JDRP) consisting of numerous multi-family residential units under construction. Adjoining to the east is Atlas Iron and Metal Company (a metal recycler). Adjoining to the south is the high school football field and bleachers, and adjoining west is

the Jordan Downs Public Housing apartments (older low-income apartments). There are no public roadways immediately adjoining the Site.

1.2 **Background**

The northwestern portion of the Site was occupied by low income housing from at least the 1950s through early 1960s. It appears to have been largely unused from the early 1960s through the early 2000s, and then basketball and tennis courts associated with the high school until 2013. This area currently remains asphalt covered and appears generally not to be in use. The central and eastern portions of the Site are reported to have been used as a laydown yard from 1948 through 1959 for a steel mill that was adjoining north of the Site (PlaceWorks, 2018). This portion of the Site has been unused, or a grass field/softball field since then.

The southern-most portion of the Site was sold to Compton Union School District in 1924 to establish Watts Union High School. The high school was then transferred in 1927 to the LAUSD and renamed David Starr Jordan Senior High School. A portion of the campus is currently occupied by Animo College Preparatory Academy.

The District plans to modify the northern portion of the campus and will be removing soil impacted with arsenic, lead, and total petroleum hydrocarbons (TPH), as determined by previous environmental investigations. Leighton was contracted by the District to complete a SSI to further assess the lateral and vertical limits of arsenic and lead concentrations in soil at the Site.

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

1.3.1 Geology

The Site lies within the central block of the Los Angeles basin, with relatively little topographic relief. The closest major physiographic feature is the Los Angeles River, approximately 3.1 miles east of the Site. The Site is underlain by poorly consolidated Holocene to late Pleistocene alluvial fan and valley deposits, consisting of poorly sorted clay, sand, gravel, and cobbles (CGS, 2003).

1.3.2 Hydrogeology

The Site is located in the Central Groundwater Sub-basin of the Coastal Plain of the Los Angeles County Groundwater Basin. This sub-basin is bound to the north and northeast by the Elysian, Repetto, Merced and Puente Hills, to the southeast by the Orange County Groundwater Basin, and to the southwest and west by the Newport–Inglewood Fault system and the West Coast Groundwater Basin (DWR, 1988). Per the Los Angeles Regional Water Quality Control Board (LARWQCB), designated beneficial uses of groundwater in the Central sub-basin of the Coastal Plain of Los Angeles include: municipal, industrial, process and agricultural supply (LARWQCB, 2018).

The immediate Site vicinity is underlain with an approximately 60-feet thick layer of alluvium deposits, then approximately 50-feet thick layer of the Gaspar Aquifer, then approximately 125-feet thick layer of the Exposition Aquifer (DWR, 1988).

1.4 Previous Environmental Investigations and Remedial Efforts

1.4.1 2002-2005 Phase I and Emergency Excavation

An inert artillery shell from the adjacent Atlas Iron and Metal Company landed on the Site (softball field) on December 13, 2002. As a result of the incident, the DTSC increased their scrutiny of the Atlas Iron and Metal Company. In 2004, the DTSC commissioned Robin Environmental Management Company to perform a Phase I Environmental Site Assessment (ESA) on the northeastern corner of Jordan High School (current softball field), along with land immediately north and east of the

softball field (Robin Environmental Management, 2004). The Phase I ESA was conducted concurrently with a soil sampling program implemented by DTSC to investigate the former steel mill property to the north and metal recycling properties to the east of the Site. The DTSC investigation was conducted between March 27 and April 20, 2004, and discovered elevated levels of lead, arsenic, copper, chromium, antimony, and polychlorinated biphenyls (PCBs) in soil.

In June 2004, the DTSC commissioned Accord Engineering, Inc., to conduct an Emergency Excavation Workplan for the softball field on the northeastern and eastern portions of the Site. The purpose of the Emergency Excavation Workplan was to respond to a DTSC Imminent and Substantial Endangerment Determination due to their discovery of elevated metals in the softball field. Following the removal and disposal of contaminated soil along the perimeter of the Site between June 21 and 28, 2004, DTSC commissioned Accord Engineering, Inc. to prepare an Emergency Excavation Completion Report. The report documents the excavation and disposal activities, and includes details about confirmation sampling and backfill operations (Accord, 2005). DTSC certified the Final Emergency Excavation Completion Report via a letter dated May 4, 2005.

1.4.2 2016 Limited Soil Screening

In 2016, after becoming aware of assessment and removal activities being completed north of the subject Site (at JDRP), the LAUSD retained Waterstone Environmental, Inc., to conduct a Limited Soil Screening Investigation. The area of the investigation is the subject of this current RAW (north of the football field, track and bleachers, and the softball field). The purpose of the Limited Soil Screening Investigation was to assess the concentrations of lead and arsenic in the soil.

The soil sampling program involved the collection of samples at 34 locations across the Site. The samples were generally collected at 1", 6", 18" and 36" below ground surface (bgs), and analyzed for lead and arsenic. Selected samples at various locations throughout the Site were reported to contain arsenic and lead above DTSC screening levels of 12 milligrams/kilogram (mg/kg) (arsenic) and 80 mg/kg (lead) (Waterstone, 2016).

1.4.3 2017 Soil Screening Investigation on NW Portion of Subject Site

In 2017, Jordan Downs Remediation Manager LLC commissioned Anderson Environmental to write a technical memorandum detailing a limited soil screening investigation conducted on the northwestern portion of the Site. The purpose of the investigation was to determine the lateral extent of the TPH-impacted soil that was previously found on the JDRP property immediately north of the Site. The investigation tested for TPH and volatile organic compounds (VOCs) in the soil. Forty-seven samples were collected at eight locations and analyzed for TPH and VOCs. VOC concentrations did not exceed regional screening levels; however, maximum reported TPH concentrations were as follows:

- TPH as gasoline (TPH-g) – 2,180 mg/kg
- TPH as diesel (TPH-d) - 20,300 mg/kg
- TPH as oil (TPH-o) - 1,430 mg/kg

The pattern of detections (shallowest near the northern Site property line) indicated an offsite source on the JDRP property to the north.

1.4.4 2018 Supplemental Soil Investigation

In April 2018, LAUSD entered into a Voluntary Cleanup Agreement (VCA) with DTSC to further investigate impacts previously reported on the Site (DTSC, 2018). Placeworks completed 73 initial borings (40 feet below ground surface [bgs] maximum) and then 207 additional step-out borings (30 feet bgs maximum depth). Samples were analyzed for arsenic, lead, and TPH, depending upon boring locations. Concentrations of arsenic, lead, and TPH-d were found above screening levels at 45 discrete locations. Based on this investigation, a total of 3,409 cubic yards of soil were estimated likely to be non-hazardous waste if completely removed to the total depth, while 75 cubic yards were estimated to be California-regulated hazardous waste (non-RCRA) if removed. Placeworks recommended that a RAW be prepared to guide the removal and offsite disposal of this material (Placeworks, 2018).

1.4.5 Removal Action Workplan

A Final RAW was prepared by Leighton and submitted to the DTSC on July 1, 2019 (Leighton, 2019). The Final RAW was approved by the DTSC on June 27, 2019 after the 30-day public comment period was completed.

2.0 SAMPLING ACTIVITIES

The SSI field sampling activities presented herein were conducted on April 15 and 16, 2019, and were designed to further assess areas with arsenic and lead which are the chemicals of concern (COCs) identified in shallow soil at the Site. Appendix B contains soil boring logs and boring locations are shown on Figures 3 through 7. Appendix C contains a photographic log showing representative soil boring locations and sampling activities from the sampling events.

A separate field sampling effort was performed on May 24, 2019, to collect additional data to characterize the soil for disposal in advance of the planned removal action.

These sampling efforts consisted of the collection of discrete-depth soil samples to screen shallow soil for arsenic and lead concentrations. Sampling activities consisted of the following components discussed below.

2.1 Objectives

The primary objectives of this SSI were:

- To further assess shallow soil for COCs including arsenic and lead which were identified in the previous environmental investigations at the Site;
- Determine if the limits of the proposed remedial soil excavations as proposed in the Final RAW will achieve RAOs or possibly require modification; and
- Evaluate if additional soil generated as part of the proposed soil excavations will require special handling or disposal.
- Improve the waste profile for future soil disposal.

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 soil boring locations were clearly marked with white spray paint on March 27, 2019, and May 22, 2019, prior to USA notification.

In addition to USA notification, Spectrum Geophysics conducted a geophysical survey on April 15 at select locations 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 the risk of damaging underground utilities (see Photo #5 in Appendix C).

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.

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

On April 15 and 16, 2019, a total of 52 step-out soil borings were advanced by Millennium Environmental, Inc. (Millennium), a State of California licensed driller, using a hand auger (Photo No. 4 in Appendix C). Each boring was advanced to a maximum depth of three (3) to five (5) feet bgs. Soil samples were generally collected from the borings at 0.5, 1.5, 3, and 5 feet bgs, where feasible.

On May 24, 2019, 14 borings (WP1 to WP14) were advanced using a hand auger to a depth of 1.5 feet bgs. Soil samples were collected from 0.5 and 1.5 feet bgs. The soil boring locations are shown on Figures 3 through 7.

Lithologic information and soil descriptions from the soil borings were recorded by Leighton's on-site staff and reviewed by a California Professional Geologist. Soil boring logs are provided in Appendix B.

Specific sampling approaches are outlined below:

- For the SSI sampling effort, discrete soil samples were obtained from depths of 0.5, 1.5, and 3 feet bgs from each boring. Ten select soil borings were advanced deeper than 3 feet and an additional soil sample was collected at 5 feet for these locations. Soil samples were collected in laboratory-supplied, 4-ounce glass jars.
- 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 blanks, EB-041519 and EB-041619, were collected from the reusable sampling equipment (hand auger) during the sampling events on April 15 and 16, 2019. The equipment blanks were collected by pouring distilled water over the cleaned and rinsed hand auger bucket and collecting the contact 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.

The soil samples collected during the SSI were analyzed by the laboratory for the following compounds:

- Lead by EPA Method 6010B.
- Arsenic by EPA Method 6020.

Soil samples collected for waste profiling purposes were analyzed for the following:

- California Code of Regulations (CCR) Title 22 Code of Administrative Manual (CAM) 17 metals (CAM 17 metals) by EPA Method 6010B/7471A;
- VOCs and Gasoline Range Organics (GRO) by EPA Method 8260B;

- Semi-volatile organic compounds (SVOCs) by EPA Method 8270;
- Organochlorine pesticides (OCPs) by EPA Method 8081A;
- Polychlorinated biphenyls (PCBs) by EPA Method 8082; and
- TPH-d and TPH-o by EPA Method 8015M.

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 (ATL) 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 device used (e.g., hand auger) was decontaminated using the following procedures:

- Non-phosphate detergent and tap water scrub, using a brush if necessary;
- Tap water rinse; and
- Final 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 report also provides a listing of data qualifiers and their significance with respect to field sample results and quality control sample results. 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 hydrated bentonite chips and clean sand. Boring locations in paved areas were completed at the surface with approximately 4 inches of concrete (Photo No. 6 in Appendix C). Backfill materials were indicated on the soil boring logs in Appendix B.

2.7 Investigation Derived Waste Management

In the process of collecting environmental samples during the SSI activities, Investigation Derived Waste (IDW) was generated that included used PPE, soil cuttings and decontamination fluids.

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



- Used PPE was consolidated and placed in a municipal refuse dumpster. These wastes are not considered hazardous and could be sent to a municipal landfill.
- Soil cuttings generated during sampling activities were placed in U.S. Department of Transportation (DOT)-approved 55-gallon steel drums. The drums were labeled and sealed, pending receipt of analytical results, waste profiling and off-site disposal
- The minimal decontamination wastewater generated (approximately five gallons) from cleaning the reusable sampling equipment was combined with the soil waste in a 55-gallon steel drum, as described above.

One composite soil sample was collected directly from the 55-gallon drums containing soil cuttings after the completion of the soil borings on April 19, 2019 (Sample ID “Drum1”, Appendix D). The IDW sample was analyzed for the following compounds:

- CCR Title 22 CAM 17 metals (CAM 17 metals) by EPA Method 6010B/7471A;
- VOCs and GRO by EPA Method 8260B;
- OCPs by EPA Method 8081A; and
- TPH-g, TPH-d, and TPH-o by EPA Method 8015B.

The IDW sample results (composite sample Drum1) indicate that the soil cuttings can be profiled as nonhazardous waste. The drums were picked up on May 24, 2019. A copy of the waste manifest is included in Appendix E.

3.0 FINDINGS

Information collected from the hand-auger soil borings (Appendix B) indicates that shallow soil at the Site is predominately silty sand. In general, the soil was observed to be grayish-brown in color, slightly moist, and did not contain chemical odors or visible chemical staining. Groundwater was not encountered in any of the boreholes during the sampling activities.

During the SSI, soil samples were collected from discrete depth intervals including 0.5, 1.5, 3.0, and 5.0 feet bgs. Soil samples collected at 0.5 and 1.5 feet bgs were analyzed for lead and arsenic. Based on analytical results received for soil samples collected at 0.5 and 1.5 feet bgs, select samples collected at 3.0 and 5.0 feet bgs were analyzed for lead and/or arsenic. Generally, arsenic concentrations at or above 12 mg/kg or lead concentrations at or above 80 mg/kg in soil samples prompted the appropriate analysis of soil samples collected at 3.0 or 5.0 feet bgs, where available. A summary of lead and arsenic results for the step-out samples analyzed as part of this investigation is included in Table 1.

Duplicate sample concentrations were generally consistent with primary sample concentrations. Some variation in duplicate sample concentrations is expected due to the heterogeneous nature of soil samples. When comparing analytical results of primary and associated duplicate samples, the maximum concentration was utilized in the human health screening evaluation. The equipment blank sample results indicated that arsenic and lead were not detected above laboratory detection limits (see laboratory analytical results for Samples EB-041519 and EB-041619 in Appendix D).

Field procedures (sampling and decontamination) were conducted in compliance with the above protocol. 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 screening levels and/or RAOs. 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.

Step-out soil sample analytical results are presented in Table 1 and summarized below.

3.1 **Arsenic**

Arsenic was detected in 135 step-out soil samples analyzed by EPA Method 6020 with concentrations ranging from 2.5 mg/kg (SSI-69 at 3.0 feet bgs) to 420 mg/kg (JH-6N at 1.5 feet bgs), as shown in Table 1. Of the 135 arsenic concentrations reported, 54 concentrations were equal to or greater than the DTSC-adopted background arsenic concentration of 12 mg/kg (DTSC, 2008). Step-out locations where one or more soil samples reported arsenic above the screening level of 12 mg/kg are indicated on Figures 4 through 7.

3.2 **Lead**

Lead was detected in 119 soil samples analyzed by EPA Method 6010B with concentrations ranging from 1.9 mg/kg (JH-31N at 1.5 feet bgs) to 530 mg/kg (JH-17W at 1.5 feet bgs), as shown in Table 1. Of the 119 lead concentrations reported, nine (9) concentrations were equal to or greater than the DTSC-modified screening level (DTSC SL) of 80 mg/kg (screening level for use in human health risk assessments [DTSC, 2019]). Step-out locations where one or more soil samples reported lead above the screening level of 80 mg/kg are indicated on Figures 4 through 7.

3.3 **Waste Characterization**

A representative number of soil samples with elevated concentrations of arsenic and/or lead were further evaluated for chemical solubility, a standard requisite for the profiling of solid waste pursuant to CCR, Title 22 and The Resource Conservation and Recovery Act (RCRA).

Eleven (11) soil samples with arsenic concentrations greater than 50 mg/kg were analyzed by the California Waste Extraction Test (WET) for soluble threshold limit concentration (STLC). STLC results for arsenic indicate that six (6) of the analyzed samples exceed the regulatory limit of 5 milligrams per liter (mg/L) and are considered a non-RCRA (California-regulated) hazardous waste (see yellow-highlighted concentrations in Table 1). Of the six (6) samples analyzed for the arsenic STLC, five (5) samples were further analyzed by the toxicity characteristic leaching procedure (TCLP). TCLP results for arsenic ranged from 0.89 mg/L to 4.1 mg/L and were below the regulated limit of 5.0 mg/L. TCLP results below 5.0 mg/L indicate that soil analyzed as part of this investigation would not be classified as a RCRA hazardous waste.

Eight (8) soil samples with lead concentrations greater than 50 mg/kg were analyzed by the California WET for STLC. STLC results for lead indicate that six (6) of the analyzed samples exceed the regulatory limit of 5.0 mg/L and are considered a California-regulated hazardous waste (see yellow-highlighted concentrations in Table 1). Of the six (6) samples analyzed for the lead STLC, five (5) samples were further analyzed by TCLP. TCLP results for lead ranged from non-detect to 0.17 mg/L and were below the regulated limit of 5.0 mg/L. TCLP results below 5.0 mg/L indicate that soil analyzed as part of this investigation would not be classified as a RCRA hazardous waste.

3.4 Waste Profile Samples

The laboratory results from the soil samples collected from borings WP1 through WP14 on May 24, 2019, are summarized in tables provided in Appendix F. These samples were collected in an effort to improve the waste profile for future soil disposal efforts. The boring locations are shown on Figures 4 through 7. The laboratory analytical reports for these samples are also provided in Appendix F.

4.0 HUMAN HEALTH SCREENING EVALUATION

The Human Health Screening Evaluation (HHSE) evaluates potential impacts to human health from exposure to the identified COCs. A HHSE was completed as part of the previous SSI for the Site which identified arsenic, lead, and TPH as COCs (Placeworks, 2018). Based on the recommendations presented in the 2018 SSI, the District prepared a RAW which proposed RAGs to address COCs in shallow soil that presented a health risk to potential receptors at the Site (Leighton, 2019). RAGs proposed as part of the RAW for the Site are as follows:

- Arsenic: 12 mg/kg
- Lead: 80 mg/kg
- TPH-g: 430 mg/kg
- TPH-d: 1,100 mg/kg
- TPH-o: 12,000 mg/kg

As part of this assessment, step-out soil samples were collected in areas previously identified to contain hazardous levels of lead and arsenic in soil (Placeworks, 2018). Results of this HHSE are designed to supplement the findings of the previous SSI completed by Placeworks in 2018, and determine if the proposed soil excavation limits proposed in the RAW are adequate to achieve the RAOs for the Site.

Concentrations of arsenic and lead were identified above RAGs in step-out samples collected at the Site on April 15 and 16, 2019 (Table 1). Human health risks associated with TPH are not discussed as part of this HHSE because step-out samples collected as part of this assessment were not analyzed for TPH. Arsenic and lead results in step-out samples that exceed proposed RAGs are discussed 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 the 95% upper confidence limit (UCL) of the 99th percentile, also known as the upper tolerance limit (UTL; DTSC, 2008). The 12 mg/kg concentration was used as the screening level for arsenic at the Site and was also adopted as the RAG for arsenic as part of the RAW. As summarized in Table 1 and discussed in Section 3.1, out of 135 arsenic detections reported in step-out samples, 54 concentrations were equal to or greater than the RAG of 12 mg/kg.

Lead in Soil: The 80 mg/kg concentration is the DTSC-recommended screening level for lead in soil (DTSC, 2019). The 80 mg/kg concentration was used as the screening

level for lead at the Site and was also adopted as the RAG for lead as part of the Final RAW. As summarized in Table 1 and discussed in Section 3.1, out of 119 lead detections reported in step-out samples, nine (9) concentrations were equal to or greater than the RAG of 80 mg/kg.

Arsenic and lead are identified as COCs for the Site and concentrations exceeding RAGs are targeted for removal by soil excavation as part of the RAW. Concentrations of arsenic and lead in step-out soil samples that exceed RAGs should also be removed during the implementation of the RAW.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The Site occupies an approximately 2.8-acre area located in the northern portion of David Starr Jordan Senior High School. The Site is currently a softball field and a largely unused asphalt area (former basketball and tennis courts). Future Site usage will include a softball field, four (4) new tennis courts, two (2) futsal courts, and two (2) volleyball courts. There are no current plans to build structures on the Site.

The District has submitted a Final RAW which proposes soil excavations at 45 individual removal areas to address shallow soil that is impacted by COCs above the RAGs (Leighton, 2019). As part of this assessment, step-out soil borings were advanced and samples were collected within or directly adjacent to the limits of 17 of the proposed 45 removal areas to evaluate if the soil excavations will achieve RAOs or if removal areas will require modification.

Step-out samples collected as part of this SSI identified concentrations of arsenic and lead above the RAGs. Step-out sample locations with analytical results exceeding RAGs are identified on Figures 4 through 7. Based on the analytical results of step-out soil sampling, Leighton recommends the following with respect to the removal areas proposed in the RAW:

- The proposed soil excavation in the vicinity of sample location SSI-32 may require additional soil removal to the north based on laboratory results at step-out sample SSI-69 (see Figure 4). Arsenic concentrations at SSI-69 at 0.5 and 1.5 feet bgs are above the arsenic RAG.
- The proposed soil excavation in the vicinity of sample location JH-19 appears adequate to meet RAOs based on available soil data (Figure 4). The eastern limit of the removal area can likely be adjusted inward based on step-out soil sample concentrations at JH-19E, which are below RAGs.
- The proposed soil excavation in the vicinity of sample location JH-28 appears adequate to meet RAOs based on available soil data (Figure 4). The eastern limit of the removal area can likely be adjusted inward based on step-out soil sample concentrations at JH-28E, which are below RAGs.
- The proposed soil excavation in the vicinity of sample location JH-29 appears adequate to address RAGs based on available soil data (Figure 4).

- The proposed soil excavation in the vicinity of sample location JH-30 may require additional soil removal to the west based on soil results at step-out sample JH-30W (see Figure 4). The arsenic concentration at JH-30W at 0.5 feet bgs (110 mg/kg) is above the arsenic RAG. Additionally, it is recommended that soil removed from the area adjacent to JH-30W be segregated as California-regulated hazardous waste based on the arsenic STLC result for JH-30W-0.5 which exceeds 5.0 mg/L (Table 1).
- The proposed soil excavation in the vicinity of sample location JH-31 may require additional soil removal to the north, east, and west based on soil results at step-out samples JH-31N, JH-31E, and JH-31W (see Figure 4). Arsenic concentrations in the 0.5-foot samples at JH-31N, JH-31E, and JH-31W exceed the arsenic RAG. The arsenic concentration in the 1.5-foot sample at JH-31E is above the RAG and the depth of the proposed excavation may need to be increased adjacent to this sample location to meet RAOs.
- The proposed soil excavation in the vicinity of sample location JH-18 may require additional soil removal to the south, east, and west based on soil results at step-out samples JH-18S, JH-18E, and JH-18W (see Figure 5). Arsenic and lead concentrations in the 0.5-foot and 1.5-foot step-out samples exceed the applicable RAGs. It is recommended that the target depth of soil excavation be increased to address soil identified above lead and arsenic RAGs at 1.5 feet bgs. Additionally, it is recommended that soil removed from this area be segregated as California-regulated hazardous waste based on the lead STLC results for JH-18E-1.5, JH-18S-0.5, and JH-18W-1.5 which exceed 5.0 mg/L (Table 1).
- The proposed soil excavation in the vicinity of sample location JH-17 may require additional soil removal to the south and west based on soil results at step-out samples JH-17S and JH-18W (see Figure 5). Arsenic and lead concentrations in step-out samples JH-17S-0.5, JH-17W-0.5, and JH-17-1.5 exceed applicable RAGs. The arsenic and lead concentrations in the 1.5-foot sample at JH-17W are above RAGs and the depth of the proposed excavation may need to be increased adjacent to this sample location to meet RAOs. Additionally, it is recommended that soil removed from the western portion of this area be segregated as California-regulated hazardous waste based on the lead STLC result for JH-17W-1.5 which exceeds 5.0 mg/L (Table 1).
- The proposed soil excavation in the vicinity of sample location JH-16 appears adequate to meet RAOs based on available soil data (Figure 6). The arsenic and lead concentrations in step-out samples JH16W-1.5, JH16W-3.0, and JH16S-1.5

indicate that the target depth of excavation adjacent to these locations can be shallower than proposed in the RAW and still meet RAOs.

- The proposed soil excavation in the vicinity of sample location SSI-14-E appears adequate to meet RAOs based on available soil data (Figure 6). The arsenic concentration at SSI-14-E-E at 0.5 feet bgs is slightly above the arsenic RAG, but excavation confirmation sampling may indicate COC concentrations are below RAGs. The arsenic and lead concentrations in step-out sample SSI-14-E-E-1.5 indicate that the target depth of excavation adjacent to SSI-14-E-E can be shallower than proposed in the RAW and still meet RAOs.
- The proposed soil excavation in the vicinity of sample location SSI-7-N appears adequate to meet RAOs based on available soil data (Figure 6). The arsenic and lead concentrations in step-out sample SSI-64-3.0 indicate that the target depth of excavation adjacent to SSI-64 can be shallower than proposed in the RAW and still meet RAOs.
- The proposed soil excavation in the vicinity of sample location JH-6 may require additional soil removal to the north, south, east, and west based on soil results at step-out samples JH-6N, JH-6S, JH-6E, and JH-6W (see Figure 6). Arsenic and lead concentrations in 1.5-foot and 3.0-foot samples at JH-6N, JH-6S, JH-6E, and JH-6W exceed the applicable RAGs. These results also indicate that the depth of the proposed excavation depth may need to be increased to meet RAOs. In addition, STLC results for arsenic in step-out samples collected at 1.5 feet bgs are above 5.0 mg/L (Table 1). It is recommended that soil removed in the upper three feet in this excavation area be segregated as California-regulated hazardous waste.
- The proposed soil excavation in the vicinity of sample location JH-8 may require additional soil removal to the north, south, east, and west based on analytical results at step-out sample locations (see Figure 6). Arsenic concentrations in step-out locations JH-8N, JH-8S, JH-8E, and JH-8W exceed the arsenic RAG. The arsenic concentration at JH-8N-3.0 indicates that the proposed excavation depth may need to be increased in the vicinity of boring location JH-8N to meet RAOs.
- The proposed soil excavation in the vicinity of sample location SSI-3-N may require additional soil removal to the northwest and east based on analytical results at step-out sample locations (see Figure 7). Arsenic concentrations at SSI-65-1.5, SSI-65-3.0, and SSI-67-1.5 are above the arsenic RAG. The arsenic and lead concentrations in step-out locations SSI-66, SSI-67, and SSI-68 indicate that

the target depth of excavation along the eastern margin can be shallower than proposed in the RAW and still meet RAOs.

- The proposed soil excavation in the vicinity of sample location JH-3 may require additional soil removal to the south based on soil results at step-out location JH-3S (see Figure 7). The arsenic concentration at JH-3S at 0.5 feet bgs is slightly above the arsenic RAG. Lead and arsenic concentrations in step-out samples collected at 1.5 feet bgs indicate that the target depth of excavation in the vicinity of these step-out samples can be shallower than proposed in the RAW and still meet RAOs.
- The proposed soil excavation in the vicinity of sample location JH-4 may require additional soil removal to the north based on soil results at step-out location JH-4N (see Figure 7). Arsenic concentrations at JH-4N at 0.5 and 1.5 feet bgs are at or slightly above the arsenic RAG. The target depth of soil excavation in the vicinity of JH-4W, JH-4E, and JH-4S can be shallower than proposed in the RAW and still meet RAOs.
- The proposed soil excavation in the vicinity of sample location JH-2 appears adequate to meet RAOs based on available soil data (see Figure 7). The target depth of soil excavation in the vicinity of JH-2N, JH-2W, JH-2E, and JH-2S can be shallower than proposed in the RAW and still meet RAOs.
- The proposed soil excavation in the vicinity of sample location JH-5 appears adequate to meet RAOs based on available soil data (see Figure 7). The western limit of the removal area can likely be adjusted inward based on lead and arsenic concentrations at step-out locations JH-5NW and JH-5SW, which are below RAGs.

With the exception to the recommended excavation modifications described above, all other policies and procedures should be followed according to the approved RAW. The recommended soil excavation modifications are based on step-out sampling results and it should be noted that final soil excavation limits may be further altered based on sidewall and excavation bottom confirmation sampling during RAW implementation.

In general, observations should be made during all 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.

6.0 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.

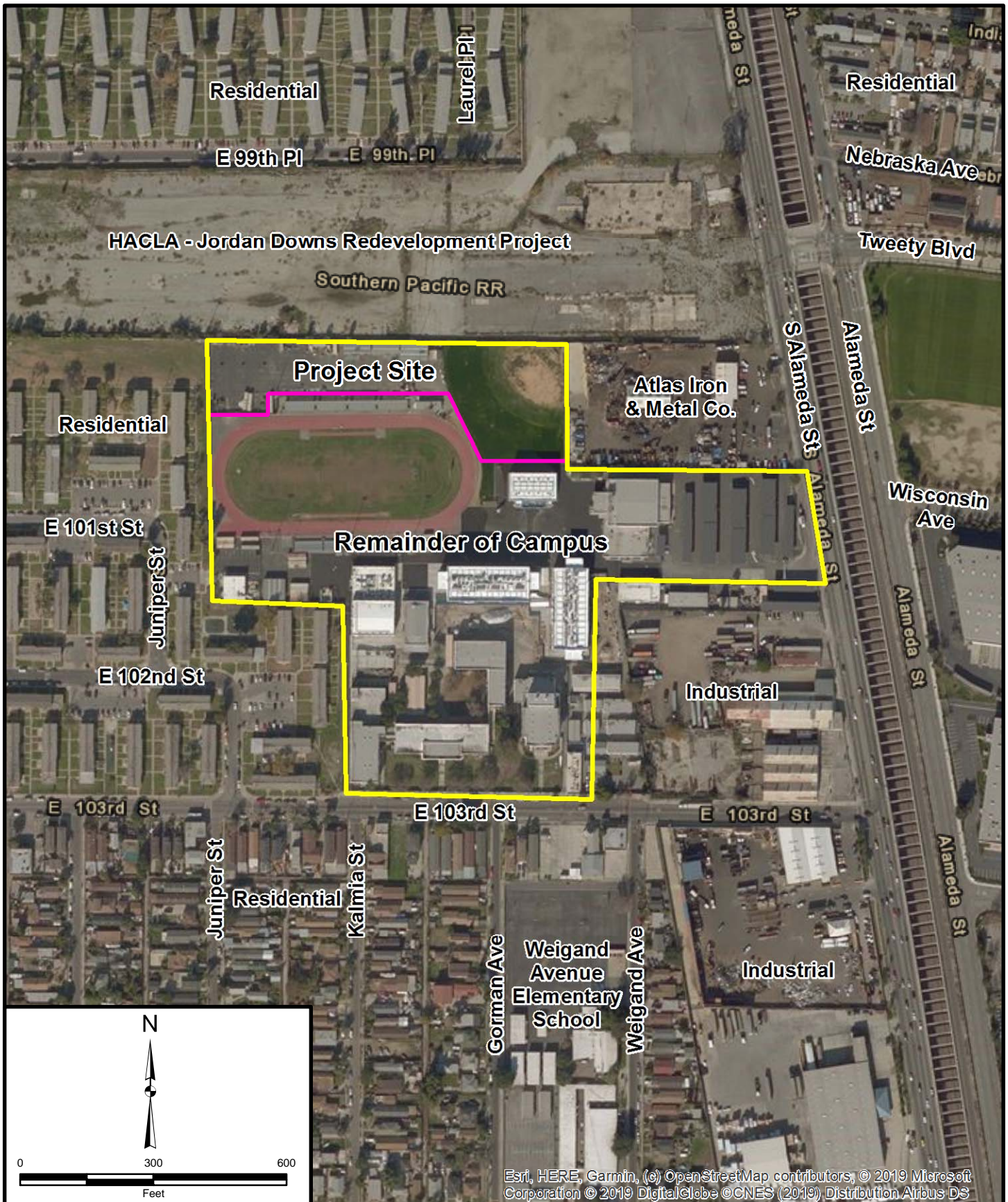
This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Leighton should be contacted if the reader requires any additional information, or has questions regarding content, interpretations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

FIGURES



Leighton



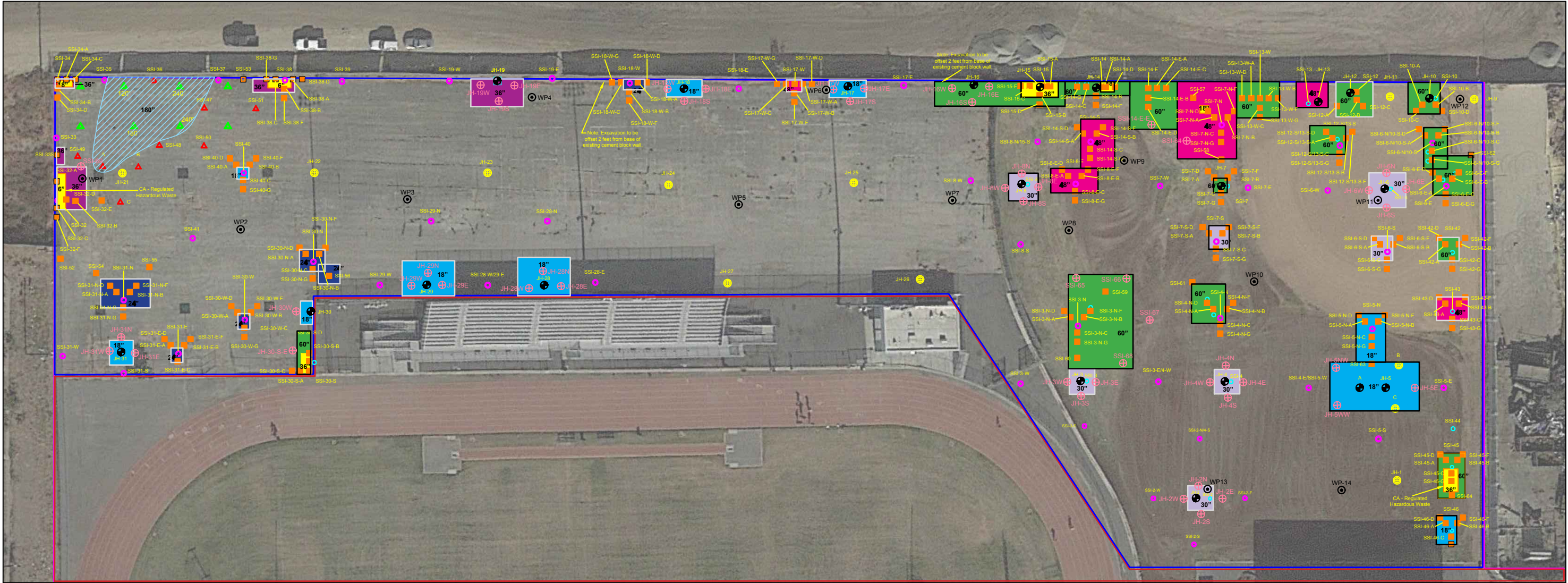
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Scale: 1" = 300'	Date: May 2019
Base Map: ESRI ArcGIS Online 2019 Thematic Information: Leighton Author: Leighton Geomatics (btran)	

SITE PLAN

David Starr Jordan High School
Los Angeles, California

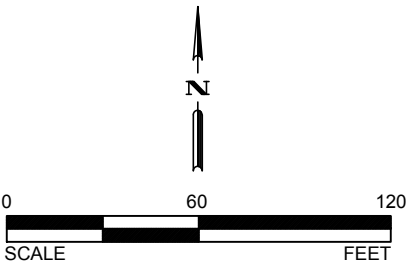
Figure 2

Leighton



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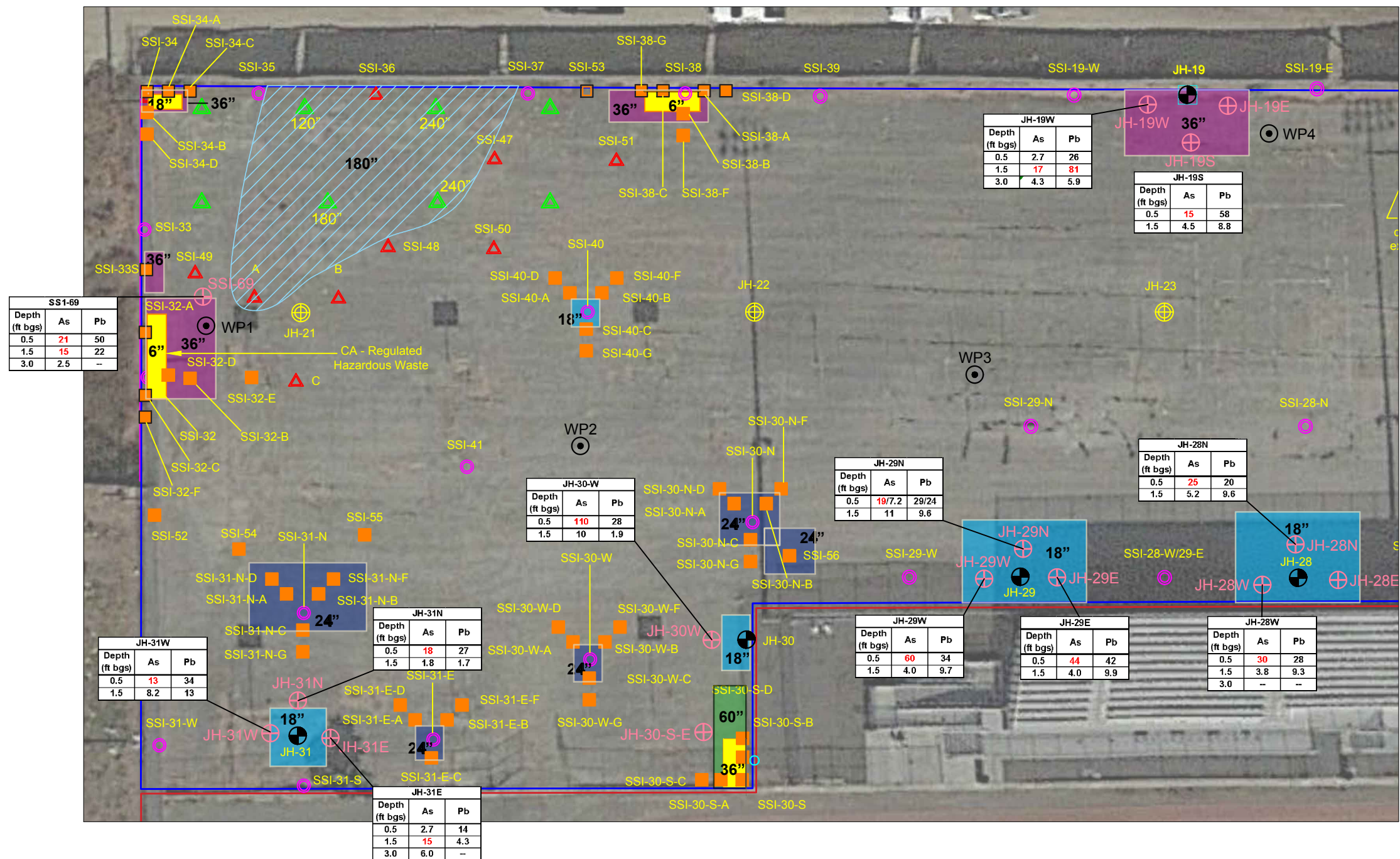
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|--|-------------------------------|--|-------------------------------|--|-----|--|--------------------------------------|
| | Project Boundary | | Vertical Delineation Sample | | 18" | | 60" |
| | School Boundary | | SSI Sample Location | | 24" | | TPH>1,000 mg/kg |
| | Southern Boundary of Site | | Current Sample Location | | 30" | | California-Regulated Hazardous Waste |
| | Clean Sample Location | | SSI TPH Sample Location | | 36" | | |
| | Impacted Soil Sample Location | | Additional Samples | | 48" | | |
| | Waste Profile Sample Location | | April 2019 Step-out Locations | | | | |



STEP-OUT SAMPLE RESULTS EXCEEDING SCREENING LEVELS AREA 1	
David Starr Jordan High School Los Angeles, California	
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Figure 3



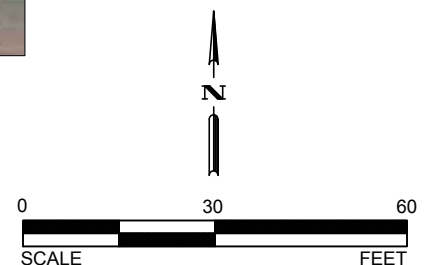


LEGEND

	Project Boundary		Vertical Delineation Sample		18"		60"
	School Boundary		SSI Sample Location		24"		TPH>1,000 mg/kg
	Southern Boundary of Site		Current Sample Location		30"		California-Regulated Hazardous Waste
	Clean Sample Location		SSI TPH Sample Location		36"		
	Impacted Soil Sample Location		Additional Samples		48"		
	Waste Profile Sample Location		April 2019 Step-out Locations				

Notes/Abbreviations:

As = Arsenic concentration in soil (mg/kg)
Pb = Lead concentration in soil (mg/kg)
mg/kg = Milligrams per kilogram
-- = Not analyzed
ft bgs - Feet below ground surface
Concentrations in red font are equal to or greater than the residential screening level for arsenic (12 mg/kg) or lead (80 mg/kg).




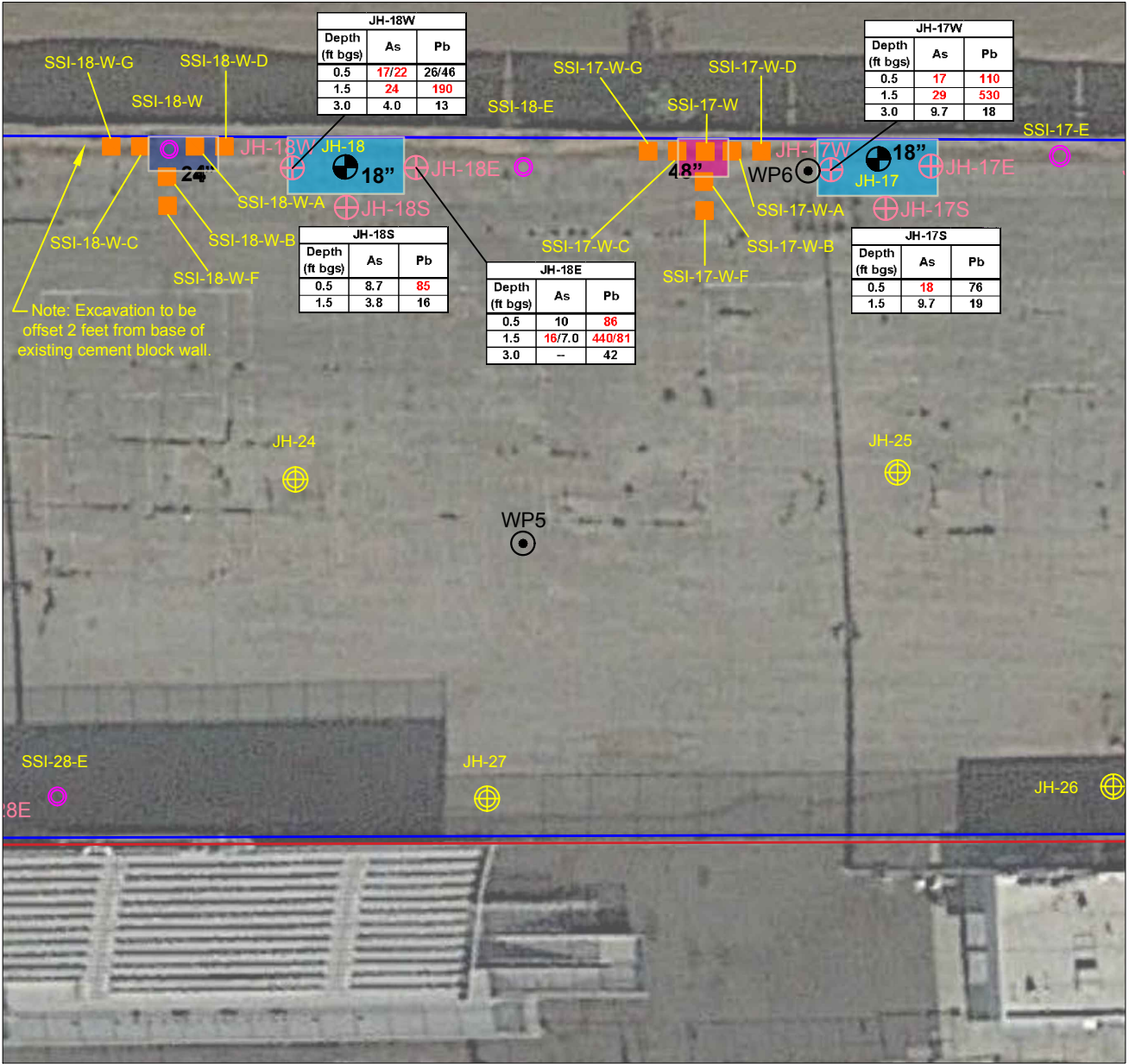
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<div>Proj: 11640.011</div>	<div>Eng/Geol: RS</div>	<div></div> <div>Leighton</div>
<div>Scale: 1"=30'</div>	<div>Date: September 2019</div>	
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Figure 4

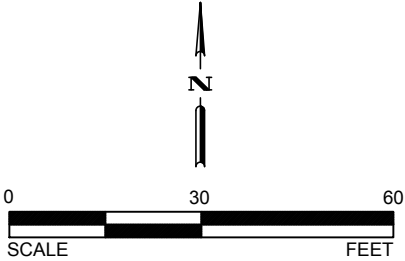


LEGEND

	Project Boundary		Vertical Delineation Sample		18"
	School Boundary		SSI Sample Location		24"
	Southern Boundary of Site		Current Sample Location		30"
	Clean Sample Location		SSI TPH Sample Location		36"
	Impacted Soil Sample Location		Additional Samples		48"
	Waste Profile Sample Location		April 2019 Step-out Locations		60"

Notes/Abbreviations:

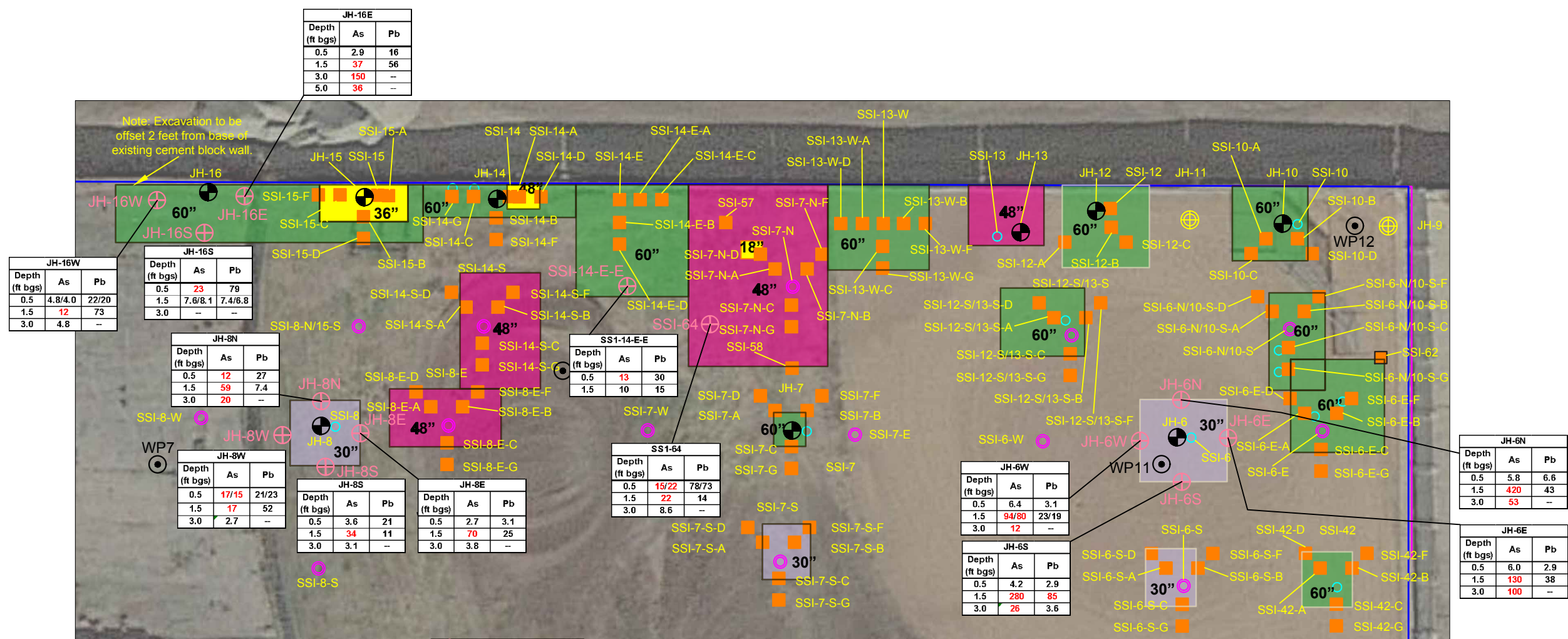
As = Arsenic concentration in soil (mg/kg)
Pb = Lead concentration in soil (mg/kg)
mg/kg = Milligrams per kilogram
-- = Not analyzed
ft bgs - Feet below ground surface
Concentrations in red font are equal to or greater than the residential screening level for arsenic (12 mg/kg) or lead (80 mg/kg).



STEP-OUT SAMPLE RESULTS EXCEEDING SCREENING LEVELS AREA 2	
David Starr Jordan High School Los Angeles, California	
Proj: 11640.011	Eng/Geol: RS
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Drafted By: BQT	Checked By: BQT

Figure 5

Leighton

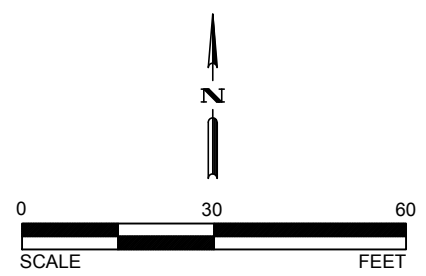



LEGEND

	Project Boundary		Vertical Delineation Sample		18"
	School Boundary		SSI Sample Location		24"
	Southern Boundary of Site		Current Sample Location		30"
	Clean Sample Location		SSI TPH Sample Location		36"
	Impacted Soil Sample Location		Additional Samples		48"
	Waste Profile Sample Location		April 2019 Step-out Locations		60"
					California-Regulated Hazardous Waste

Notes/Abbreviations:

As = Arsenic concentration in soil (mg/kg)
Pb = Lead concentration in soil (mg/kg)
mg/kg = Milligrams per kilogram
-- = Not analyzed
ft bgs - Feet below ground surface
Concentrations in red font are equal to or greater than the residential screening level for arsenic (12 mg/kg) or lead (80 mg/kg).



STEP-OUT SAMPLE RESULTS EXCEEDING SCREENING LEVELS AREA 3 David Starr Jordan High School Los Angeles, California		Figure 6
<div>Proj: 11640.011</div> <div>Eng/Geol: RS</div>		 Leighton
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TABLE



Leighton

TABLE 1
Arsenic and Lead Analytical Results for Step-Out Soil Samples
David Starr Jordan High School

11640.011

Step-Out Area or Proposed Excavation Area (Figure No.)	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	Arsenic by EPA Method 6020 & lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)	
					Arsenic	Lead	Arsenic	Lead	Arsenic	Lead
JH-2 (Figure 7)	JH-2S	JH-2S-0.5	0.5	4/16/19	7.0 D1	11	--	--	--	--
		JH-2S-1.5	1.5	4/16/19	3.6 D1	54	--	--	--	--
	JH-2W	JH-2W-0.5	0.5	4/16/19	4.4 D1	10	--	--	--	--
		JH-2W-0.5 DUP	0.5	4/16/19	5.9 D1	13	--	--	--	--
		JH-2W-1.5	1.5	4/16/19	4.3 D1	34	--	--	--	--
	JH-2N	JH-2N-0.5	0.5	4/16/19	8.9 D1	22	--	--	--	--
		JH-2N-1.5	1.5	4/16/19	3.8 D1	35	--	--	--	--
	JH-2E	JH-2E-0.5	0.5	4/16/19	8.4 D1	19	--	--	--	--
		JH-2E-1.5	1.5	4/16/19	5.6 D1	61	--	--	--	--
JH-3 (Figure 7)	JH-3S	JH-3S-0.5	0.5	4/16/19	14 D1	29	--	--	--	--
		JH-3S-1.5	1.5	4/16/19	11 D1	23	--	--	--	--
	JH-3W	JH-3W-0.5	0.5	4/16/19	9.2 D1	21	--	--	--	--
		JH-3W-1.5	1.5	4/16/19	6.5 D1	35	--	--	--	--
	JH-3E	JH-3E-0.5	0.5	4/16/19	3.6 D1	8.1	--	--	--	--
		JH-3E-1.5	1.5	4/16/19	3.8 D1	23	--	--	--	--
		JH-3E-1.5 DUP	1.5	4/16/19	4.7 D1	26	--	--	--	--
JH-4 (Figure 7)	JH-4W	JH-4W-0.5	0.5	4/16/19	4.0 D1	13	--	--	--	--
		JH-4W-1.5	1.5	4/16/19	10 D1	14	--	--	--	--
	JH-4S	JH-4S-0.5	0.5	4/16/19	3.8 D1	14	--	--	--	--
		JH-4S-1.5	1.5	4/16/19	8.3 D1	26	--	--	--	--
	JH-4N	JH-4N-0.5	0.5	4/16/19	13 D1	21	--	--	--	--
		JH-4N-1.5	1.5	4/16/19	12 D1	15	--	--	--	--
		JH-4N-3.0	3.0	4/16/19	4.2 D1	--	--	--	--	--
	JH-4E	JH-4E-0.5	0.5	4/15/19	3.8 D1	4.2	--	--	--	--
		JH-4E-1.5	1.5	4/15/19	6.5 D1	14	--	--	--	--
JH-5 (Figure 7)	JH-5E	JH-5E-0.5	0.5	4/15/19	12 D1	10	--	--	--	--
		JH-5E-1.5	1.5	4/15/19	5.4 D1	15	--	--	--	--
	JH-5NW	JH-5NW-0.5	0.5	4/15/19	4.5 D1	28	--	--	--	--
		JH-5NW-1.5	1.5	4/15/19	3.1 D1	6.2	--	--	--	--
	JH-5SW	JH-5SW-0.5	0.5	4/15/19	5.2 D1	32	--	--	--	--
		JH-5SW-1.5	1.5	4/15/19	11 D1	14	--	--	--	--
JH-6 (Figure 6)	JH-6E	JH-6E-0.5	0.5	4/15/19	6.0 D1	2.9	--	--	--	--
		JH-6E-1.5	1.5	4/15/19	130 D6	38	32	--	3.1 D1	--
		JH-6E-3.0	3.0	4/15/19	100 D6	--	--	--	--	--
	JH-6N	JH-6N-0.5	0.5	4/15/19	5.8 D1	6.6	--	--	--	--
		JH-6N-1.5	1.5	4/15/19	420 D6	43	51	--	4.1 D1	--
		JH-6N-3.0	3.0	4/15/19	53 D1	--	--	--	--	--
	JH-6S	JH-6S-0.5	0.5	4/15/19	4.2 D1	2.9	--	--	--	--
		JH-6S-1.5	1.5	4/15/19	280 D6	85	23	5.8 D1	3.5 D1	ND<0.25
		JH-6S-3.0	3.0	4/15/19	26 D1	3.6	--	--	--	--
	JH-6W	JH-6W-0.5	0.5	4/15/19	6.4 D1	3.1	--	--	--	--
		JH-6W-1.5	1.5	4/15/19	94 D1	23	5.4	--	0.89 D1	--
		JH-6W-1.5DUP	1.5	4/15/19	80 D1	19	5.7	--	--	--
		JH-6W-3.0	3.0	4/15/19	12 D1	--	--	--	--	--
JH-8 (Figure 6)	JH-8E	JH-8E-0.5	0.5	4/15/19	2.7 D1	3.1	--	--	--	--
		JH-8E-1.5	1.5	4/15/19	70 D1	25	1.7	--	--	--
		JH-8E-3.0	3.0	4/15/19	3.8 D1	--	--	--	--	--
	JH-8N	JH-8N-0.5	0.5	4/15/19	12 D1	27	--	--	--	--
		JH-8N-1.5	1.5	4/15/19	59 D1	7.4	2.3	--	--	--
		JH-8N-3.0	3.0	4/15/19	20 D1	--	--	--	--	--
	JH-8S	JH-8S-0.5	0.5	4/15/19	3.6 D1	21	--	--	--	--
		JH-8S-1.5	1.5	4/15/19	34 D1	11	--	--	--	--
		JH-8S-3.0	3.0	4/15/19	3.1 D1	--	--	--	--	--
	JH-8W	JH-8W-0.5	0.5	4/15/19	17 D1	21	--	--	--	--
		JH-8W-0.5DUP	0.5	4/15/19	15 D1	23	--	--	--	--
		JH-8W-1.5	1.5	4/15/19	17 D1	52	--	--	--	--
		JH-8W-3.0	3.0	4/15/19	2.7 D1	--	--	--	--	--

TABLE 1
Arsenic and Lead Analytical Results for Step-Out Soil Samples
David Starr Jordan High School

11640.011

Step-Out Area or Proposed Excavation Area (Figure No.)	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	Arsenic by EPA Method 6020 & lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)	
					Arsenic	Lead	Arsenic	Lead	Arsenic	Lead
JH-16 (Figure 6)	JH-16E	JH-16E-0.5	0.5	4/15/19	2.9 D1	16	--	--	--	--
		JH-16E-1.5	1.5	4/15/19	37 D1	56	--	--	--	--
		JH-16E-3.0	3.0	4/15/19	150 D6	--	4.1 D1	--	--	--
		JH-16E-5.0	5.0	4/15/19	36 D1	--	--	--	--	--
	JH-16S	JH-16S-0.5	0.5	4/15/19	23 D1	79	--	--	--	--
		JH-16S-1.5	1.5	4/15/19	7.6 D1	7.4	--	--	--	--
		JH-16S-1.5DUP	1.5	4/15/19	8.1 D1	6.8	--	--	--	--
	JH-16W	JH-16W-0.5	0.5	4/15/19	4.8 D1	22	--	--	--	--
		JH-16W-0.5DUP	0.5	4/15/19	4.0 D1	20	--	--	--	--
		JH-16W-1.5	1.5	4/15/19	12 D1	73	--	--	--	--
JH-17 (Figure 5)	JH-17E	JH-17E-0.5	0.5	4/15/19	3.4 D1	14	--	--	--	--
		JH-17E-1.5	1.5	4/15/19	5.7 D1	65	--	--	--	--
	JH-17S	JH-17S-0.5	0.5	4/15/19	18 D1	76	--	--	--	--
		JH-17S-1.5	1.5	4/15/19	9.7 D1	19	--	--	--	--
	JH-17W	JH-17W-0.5	0.5	4/15/19	17 D1	110	--	2.0 D1	--	--
		JH-17W-1.5	1.5	4/15/19	29 D1	530	--	18 D1	--	0.17 D1 J
		JH-17W-3.0	3.0	4/15/19	9.7 D1	18	--	--	--	--
JH-18 (Figure 5)	JH-18E	JH-18E-0.5	0.5	4/15/19	10 D1	86	--	4.5 D1	--	--
		JH-18E-1.5	1.5	4/15/19	16 D1	440	--	22 D1	--	0.024 D1 J
		JH-18E-1.5DUP	1.5	4/15/19	7.0 D1	81	--	--	--	--
		JH-18E-3.0	3.0	4/15/19	--	42	--	--	--	--
	JH-18S	JH-18S-0.5	0.5	4/15/19	8.7 D1	85	--	6.5 D1	--	--
		JH-18S-1.5	1.5	4/15/19	3.8 D1	16	--	--	--	--
	JH-18W	JH-18W-0.5	0.5	4/15/19	17 D1	26	--	--	--	--
		JH-18W-0.5DUP	0.5	4/15/19	22 D1	46	--	--	--	--
		JH-18W-1.5	1.5	4/15/19	24 D1	190	--	12 D1	--	ND<0.25
		JH-18W-3.0	3.0	4/15/19	4.0 D1	13	--	--	--	--
JH-19 (Figure 4)	JH-19E	JH-19E-0.5	0.5	4/15/19	4.0 D1	21	--	--	--	--
		JH-19E-1.5	1.5	4/15/19	3.4 D1	9.1	--	--	--	--
	JH-19S	JH-19S-0.5	0.5	4/15/19	15 D1	58	--	--	--	--
		JH-19S-1.5	1.5	4/15/19	4.5 D1	8.8	--	--	--	--
	JH-19W	JH-19W-0.5	0.5	4/15/19	2.7 D1	26	--	--	--	--
		JH-19W-1.5	1.5	4/15/19	17 D1	81	--	12 D1	--	0.034 D1 J
JH-28 (Figure 4)	JH-28N	JH-28N-0.5	0.5	4/16/19	25 D1	20	--	--	--	--
		JH-28N-1.5	1.5	4/16/19	5.2 D1	9.6	--	--	--	--
	JH-28E	JH-28E-0.5	0.5	4/16/19	5.5 D1	17	--	--	--	--
		JH-28E-1.5	1.5	4/16/19	4.5 D1	7.4	--	--	--	--
	JH-28W	JH-28W-0.5	0.5	4/16/19	30 D1	28	--	--	--	--
		JH-28W-1.5	1.5	4/16/19	3.8 D1	9.3	--	--	--	--
JH-29 (Figure 4)	JH-29N	JH-29N-0.5	0.5	4/16/19	19 D1	29	--	--	--	--
		JH-29N-0.5 DUP	0.5	4/16/19	7.2 D1	24	--	--	--	--
		JH-29N-1.5	1.5	4/16/19	11 D1	9.6	--	--	--	--
	JH-29E	JH-29E-0.5	0.5	4/16/19	44 D1	42	--	--	--	--
		JH-29E-1.5	1.5	4/16/19	4.0 D1	9.9	--	--	--	--
	JH-29W	JH-29W-0.5	0.5	4/16/19	60 D1	34	2.5	--	--	--
JH-30 (Figure 4)	JH-30W	JH-30W-0.5	0.5	4/16/19	110 D1	28	5.3	--	1.4 D1	--
		JH-30W-1.5	1.5	4/16/19	10 D1	1.9	--	--	--	--
JH-31 (Figure 4)	JH-31E	JH-31E-0.5	0.5	4/15/19	2.7 D1	14	--	--	--	--
		JH-31E-1.5	1.5	4/15/19	15 D1	4.3	--	--	--	--
		JH-31E-3.0	3.0	4/15/19	6.0 D1	--	--	--	--	--
	JH-31N	JH-31N-0.5	0.5	4/15/19	18 D1	27	--	--	--	--
		JH-31N-1.5	1.5	4/15/19	1.8 D1	1.7	--	--	--	--
	JH-31W	JH-31W-0.5	0.5	4/15/19	13 D1	34	--	--	--	--
		JH-31W-1.5	1.5	4/15/19	8.2 D1	13	--	--	--	--

TABLE 1
Arsenic and Lead Analytical Results for Step-Out Soil Samples
David Starr Jordan High School

11640.011

Step-Out Area or Proposed Excavation Area (Figure No.)	Borehole ID	Sample ID	Sample Depth (feet bgs)	Date Sampled	Arsenic by EPA Method 6020 & lead by EPA Method 6010B (mg/kg)		STLC by WET/EPA Method 6010B (mg/L)		TCLP by EPA Method 6010B (mg/L)	
					Arsenic	Lead	Arsenic	Lead	Arsenic	Lead
SSI-14-E (Figure 6)	SSI-14-E-E	SSI-14-E-E-0.5	0.5	4/15/19	13 D1	30	--	--	--	--
		SSI-14-E-E-1.5	1.5	4/15/19	10 D1	15	--	--	--	--
SSI-30-S (Figure 4)	SSI-30-S-E	SSI-30-S-E-0.5	0.5	4/16/19	7.6 D1	20	--	--	--	--
		SSI-30-S-E-1.5	1.5	4/16/19	4.9 D1	7.2	--	--	--	--
SSI-7-N (Figure 6)	SSI-64	SSI-64-0.5	0.5	4/15/19	15 D1	78	--	--	--	--
		SSI-64-0.5DUP	0.5	4/15/19	22 D1	73	--	--	--	--
		SSI-64-1.5	1.5	4/15/19	22 D1	14	--	--	--	--
		SSI-64-3.0	3.0	4/15/19	8.6 D1	--	--	--	--	--
SSI-3N (Figure 7)	SSI-65	SSI-65-0.5	0.5	4/16/19	3.0 D1	6.5	--	--	--	--
		SSI-65-1.5	1.5	4/16/19	37 D1	18	--	--	--	--
		SSI-65-3.0	3.0	4/16/19	72 D1	--	3.0	--	--	--
		SSI-65-5.0	5.0	4/16/19	16 D1	--	--	--	--	--
	SSI-66	SSI-66-0.5	0.5	4/16/19	6.7 D1	17	--	--	--	--
		SSI-66-1.5	1.5	4/16/19	9.5 D1	19	--	--	--	--
	SSI-67	SSI-67-0.5	0.5	4/16/19	4.2 D1	6.3	--	--	--	--
		SSI-67-1.5	1.5	4/16/19	21 D1	22	--	--	--	--
		SSI-67-3.0	3.0	4/16/19	2.9 D1	--	--	--	--	--
	SSI-68	SSI-68-0.5	0.5	4/16/19	5.1 D1	17	--	--	--	--
		SSI-68-1.5	1.5	4/16/19	7.8 D1	19	--	--	--	--
SSI-32 (Figure 4)	SSI-69	SSI-69-0.5	0.5	4/15/19	21 D1	50	--	--	--	--
		SSI-69-1.5	1.5	4/15/19	15 D1	22	--	--	--	--
		SSI-69-3.0	3.0	4/15/19	2.5 D1	--	--	--	--	--
Regulatory Screening Levels:										
DTSC HERO HHRA Note 3 (April 2019) ¹					0.11	80 ²	NA	NA	NA	NA
RSLs (May 2019) ³					0.68	400	NA	NA	NA	NA
Southern California Regional Background Level (DTSC, 2008) ⁴					12	NA	NA	NA	NA	NA
Federal and State Hazardous Waste Criteria ⁵					500	1,000	5 mg/L	5 mg/L	5 mg/L	5 mg/L

Notes:

110 Values in red font exceed a screening level

Yellow high-lighted cells indicate a sample classified as non-RCRA (CA-regulated) hazardous waste

1. DTSC, HERO HHRA Note Number 3 (April 2019). Criteria selected: Residential soil, cancer endpoint (carcinogens), non-cancer endpoint (all others)

2. 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.

3. RSLs, Regional Screening Levels for Region 9, Updated May 2019, Criteria selected: Residential soil, Total Hazard Quotient = 1.0, Target risk of 1.0E-6

4. DTSC, Determination of a Southern California Regional Background Arsenic Concentration in Soil, March 2008. Background arsenic was selected as the screening level for arsenic.

5. Select samples where the TTLC for lead and/or arsenic was greater than 50 mg/kg were analyzed using the Waste Extraction Test for STLC by EPA Method 6010B. Where the result is above the STLC regulatory limit of 5 mg/L arsenic or 5 mg/L lead, the material is considered a non-RCRA (CA-restricted) hazardous waste per the California Code of Regulations, Title 22, Chapter 11, Article 3. Select samples where the TTLC for lead and/or arsenic was greater than 100 mg/kg were analyzed for TCLP. Where the result is above the TCLP regulatory limit of 5 mg/L arsenic or 5 mg/L lead, the material is hazardous waste under RCRA.

Acronyms/Abbreviations:

bgs	Below ground surface
D1	Laboratory data qualifier indicating that the sample required dilution due to possible matrix interference.
D6	Sample required dilution due to high concentration of target analyte.
DTSC	California Department of Toxic Substances Control
EPA	United States Environmental Protection Agency
HERO	Office of Human and Ecological Risk
J	Analyte detected below the Practical Quantitation Limit but above or equal to the Method Detection Limit. Result is an estimated concentration.
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
NA	Not applicable or not available.
ND	Not detected above the laboratory reporting limit.
RCRA	The Resource Conservation and Recovery Act
RSLs	Regional Screening Levels (see Note 3, above)
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity characteristic leaching procedure
TTLC	Total Threshold Limit Concentration
<0.25	Analyte not detected above the referenced practical quantitation limit.
-	Not analyzed.

APPENDIX A

REFERENCES



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APPENDIX A

References

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- California Geologic Survey (CGS), 2003 Seismic Hazard Zone Report for the 7.5-Minute South Gate Quadrangle. California Geologic Survey.
- Leighton Consulting, Inc., Final Removal Action Workplan, Northern Portion of David Starr Jordan High School, 2265 E. 103rd Street, Los Angeles, California, 90002, July 1, 2019.
- Placeworks, Supplemental Site Investigation Report, David Starr Jordan Senior High School, dated November 2018.
- Robin Environmental Management, 2004, Phase I Environmental Site Assessment, Baseball Field at the NE Corner of Jordan High School - 2265 East 103rd Street, Los Angeles & Land Immediately Adjacent to East Side of Baseball Field - Site Currently Belonging to Atlas Metals & Recycling, 10019 S. Alameda Street, Los Angeles, CA & Land Immediately Adjacent to the North Side of the Baseball Field - Site Currently Occupied by LEX-WEST, 9901 S. Alameda, Street, Los Angeles, CA; prepared for DTSC, Glendale, CA; report dated May 19, 2004.
- San Francisco Bay Regional Water Quality Control Board (SFRWQCB), Environmental Screening Levels, February 2016 (revision 3).
- State of California Environmental Protection Agency - Department of Toxic Substances Control (DTSC), Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers, dated June 9, 2006.
- _____, Determination of a Southern California Regional Background Arsenic Concentration in Soil, <http://www.dtsc.ca.gov/upload/Background-Arsenic.pdf>, 2008.

_____, Voluntary Cleanup Agreement, Docket No. HSA-FY17/18-084, David Starr Jordan High School, 2265 East 103rd Street, Los Angeles, CA 90002, dated April 20, 2018.

_____, Human Health Risk Assessment (HRRRA) Note Number: 3, DTSC-modified screening levels, updated April 2019.

United States Environmental Protection Agency (EPA), Regional Screening Levels, Region 9: Pacific Southwest, Residential Soil Tables (TR-1E-06, THQ=1.0), updated November 2018.

Waterstone Environmental, Inc, 2016, Limited Soil Screening Investigation of David Starr Jordan Senior High School, prepared for Los Angeles Unified School District, dated September 29, 2016.

APPENDIX B

BORING LOGS






Leighton



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-2N
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0723 1		JH-2N-0.5				@ Surface: 2" topsoil	 SAND
0725 2		JH-2N-1.5		SM		@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium sandy grained, trace clay, no odor or staining.	 Bentonite
0727 3		JH-2N-3.0		—		@ 3.0': sandy clay.	
4							
5							
6							
7							
8							
9							

TD 3'




Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-2S
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	P/D (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACK FILL WELL DIAGRAM	
0736 1		JH-2S-0.5				@ Surface: 2" topsoil		SAND
0738 2		JH-2S-1.5		SM		@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, trace clay, no odor or staining.		Bentonite
0740 3		JH-2S-3.0				@ 3.0': trace clay		
4								
5								
6								
7								
8								
9								

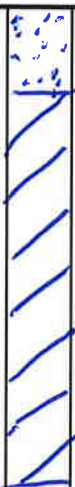
Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-2W
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0732 0733 1		JH-2W-0.5 JH-2W-0.5DUP		SM		@ Surface: 2" topsoil @ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, trace clay, no odor or staining.	 SAND Bentonite
0734 2		JH-2W-1.5					
0737 3		JH-2W-3.0				@ 3.0': some clay.	
4							
5							
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-2E
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0724 1		JH-2E-0.5		SM		@ Surface: 2" topsoil	SAND
0726 2		JH-2E-1.5				@ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, trace clay, no odor or staining.	Bentonite
0728 3		JH-2E-3.0				@ 3.0': Some clay.	
4							
5						TD 3'	
6							
7							
8							
9							




Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-35
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
0748 1		JH-35-0.5				@ Surface: 2" top soil		SAND
0751 2		JH-35-1.5		SM		@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.		Bentonite
0753 3		JH-35-3.0				@ 3.0': trace clay		
4								
5								
6								
7								
8								
9								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number 11640.011 Boring ID JH-3W
Project Name LAUSD David StarrJordan High School Date Drilled 4-16-19
Location 2265 E 103rd St., Los Angeles Casing Type/Diameter N/A
Drilling Method Hand Auger - Millennium Env. Screen Type/Slot N/A
Sampling Method 4-oz. Glass Jar Gravel Pack Type N/A
Ground Elevation Grout Type/Quantity N/A
Logged By SAG Depth to Water N/A
Remarks

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0752 1		JH-3W-0.5				@ Surface: 2" top soil @0.5': Silty sand, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
0754 2		JH-3W-1.5					Bentonic
0755 3		JH-3W-3.0				@3.0': trace clay.	
4							
5							
6						TO 3'	
7							
8							
9							




Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-3E
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0743 1		JH-3E-0.5				@ Surface: 2" topsoil @ 0.5': silty sand, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	 SAND
0744 0745 2		JH-3E-1.5 JH-3E-1.5 DUH		SM			 Bentonite
0747 3		JH-3E-3.0				@ 3.0': trace clay.	
4							
5							
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-4N
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0710 1		JH-4N-0.5				@ Surface: 2" topsoil	
0720 2		JH-4N-1.5		SM		@ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	Sand
0722 3		JH-4N-3.0				@ 3.0': trace clay	Bentonite
4							
5							
6						TD 3'	
7							
8							
9							




Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-4E
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
1235 1		JH-4E-0.5				@ Surface: 2" top soil		SAND
1236 2		JH-4E-1.5		SM		@ 0.5: Silty SAND, brown, medium dense, slightly moist, fine to medium grained, some clay, no odor or staining.		Bentonite
1239 3		JH-4E-3.0				@ 3.0': Trace coarse grained.		
4								
5								
6						TD 3'		
7								
8								
9								



Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-4W
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
0711 1		JH-4W-0.5				@ Surface: 2" topsoil		SAND
0713 2		JH-4W-1.5		SM		@ 0.5': silty SAND, brown, medium density; slightly moist, fine to medium grained, no odor or staining.		Bentonite
0715 3		JH-4W-3.0				@ 3.0': trace clay.		
4								
5								
6								
7								
8								
9								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number 11640.011 Boring ID JH-45
Project Name LAUSD David Starr Jordan High School Date Drilled 4-16-19
Location 2265 E 103rd St., Los Angeles Casing Type/Diameter N/A
Drilling Method Hand Auger - Millennium Env. Screen Type/Slot N/A
Sampling Method 4-oz. Glass Jar Gravel Pack Type N/A
Ground Elevation Grout Type/Quantity N/A
Logged By SAG Depth to Water N/A
Remarks




DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0112 1		JH-45-0.5				@ Surface: 2" topsoil	
0114 2		JH-45-1.5		SM		@ 0.5': Silty sand, brown, medium dense, slightly moist, fine to medium grained no odor or staining.	SAND
0116 3		JH-45-3.0				@ 3.0': trace clay	Bentonite
4							
5							
6						TO 3'	
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-5E
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
						@ Surface: 2" top soil	
1		JH-SE-0.5				@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	 SAND
2		JH-SE-1.5		SM		@ 1.5': trace clay	 Bentonite
3		JH-SE-3.0					 Bentonite
4							
5							
6						TD 3'	
7							
8							
9							


Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor									
1	2	3	4	5	6	7	8	9	10



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-5NW
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BALK FILL WELL DIAGRAM
1227 1		JH-5NW-0.5		SM		@ Surface: 2" top soil @ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	 SAND Bentonite
1228 2		JH-5NW-1.5					
1230 3		JH-5NW-3.0				@ 3.0': trace clay	
4							
5							
6						TD 3'	
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-5SW
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
122 1		JH-5SW-0.5				@ Surface: 2" top soil	
122.5 2		JH-5SW-1.5		SM		@ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
123 3		JH-5SW-3.0				@ 1.5': trace clay.	Bentonite
						@ 3.0': some clay.	
4							
5							
6						TD 3'	
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-6N
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
1053 1		JH-6N-0.5		SM		@ Surface: 2" topsoil @ 0.5': silty SAND, reddish brown, medium dense, slightly moist, fine to medium grained, no odor or staining	SAND
1056 2		JH-6N-1.5				@ 1.5': brown, trace clay	Bentonite
1058 3		JH-6N-3.0					
4							
5						TD 3'	
6							
7							
8							
9							


Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-6W
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
1106 1		JH-6W-0.5		SM		@ Surface: 2" topsoil @ 0.5': Silty SAND, reddish brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	 SAND
1108 1109 2		JH-6W-1.5 JH-6W-1.5 DUP				@ 1.5': brown, fine some Clay.	Bentonite
1110 3		JH-6W-3.0				TO 3'	
4							
5							
6							
7							
8							
9							




Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-6E
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
						@ Surface: 2" topsoil	
1101 1		JH-6E-0.5				@ 0.5': silty SAND, reddish brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	 SAND
1103 2		JH-6E-1.5		SM		@ 1.5': brown, trace clay.	 Bentonite
1105 3		JH-6E-3.0					
4							
5							
6							
7						TP 3'	
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-bs
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

1056
1059
1100

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
		JH-bs-0.5				@ Surface: 2" topsoil	
1		JH-bs-1.5		SM		@ 0.5': silty SAND, reddish brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
2		JH-bs-3.0				@ 1.5': brown, trace clay.	Bentonite
3							
4							
5						TD 3'	
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-8N
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
1000 1		JH-8N-0.5				@ Surface: Top Soil 2"	
1002 2		JH-8N-1.5		SM		@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained no odor or staining.	SAND
1005 3		JH-8N-3.0				@ 3.0': trace clay.	Bentonite
4							
5							
6							
7							
8							
9							


Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-85
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
100p 1		JH-85-0.5		SM		@ Surface: topsoil 2" @ 0.5': silty sand, brown, slightly moist, medium dense, fine to medium sand, no odor or staining.	 SAND Bentonite
100q 2		JH-85-1.5					
1011 3		JH-85-3.0				@ 3.0': trace clay.	
4							
5						TD 3'	
6							
7							
8							
9							




Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-8E
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
6058 1		JH-8E-0.5				@ Surface: topsoil 2" @ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	 SAND
1001 2		JH-8E-1.5		SM			 Bentonite
1004 3		JH-8E-3.0				@ 3.0': trace clay.	
4							
5							
6						TD 3'	
7							
8							
9							


Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number 11640.011 Boring ID JH-8W
Project Name LAUSD David Starr Jordan High School Date Drilled 4-15-19
Location 2265 E 103rd St., Los Angeles Casing Type/Diameter N/A
Drilling Method Hand Auger - Millennium Env. Screen Type/Slot N/A
Sampling Method 4-oz. Glass Jar Gravel Pack Type N/A
Ground Elevation Grout Type/Quantity N/A
Logged By SAG Depth to Water N/A
Remarks Hit PVC pipe @ 2.5' moved to West about 1'

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
1012 1013 1014 1016		JH-8W-0.5 JH-8W-0.5 DUP				@ Surface: topsoil 2" @ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	 SAND Bentonite
2		JH-8W-1.5		SM			
3		JH-8W-3.0				@ 3.0': trace clay	
4							
5							
6						TD 3.0'	
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	SSI-14-E-E-B
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
1018		SSI-14-E-E-0.5				@ Surface: 2" topsoil		SAND
1						@ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.		
1020		SSI-14-E-E-1.5		SM				Bentonite
2								
3		SSI-14-E-E-3.0				@ 3.0': trace clay		
1022				SC				Bentonite
4								
5		SSI-14-E-E-5.0				@ 5.0': Clayey Sand, brown, medium dense, slightly moist, very fine to fine grained, some medium grained, some silt, no odor or staining.		
6								Bentonite
7								
8								
9						to 5'		




Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-16W
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0920 0921 1		JH-16W-0.5 JH-16W-0.5DUP		SM		@ Surface: 3" asphalt @ 0.5': Silty SAND, brown, medium dense, slight moist, fine to medium grained, no odor or staining,	 SAND
0922 2		JH-16W-1.5					
0925 3		JH-16W-3.0				@ 3.0': trace clay.	 Bentonite
4							
0927 5		JH-16W-5.0		SC		@ 5.0': clayey SAND, brown, medium dense, slightly moist, very fine to fine grained, some medium grained, trace silt, no odor or staining.	
6							
7							
8						TD 5'	
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-165
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0930 1		JH-165-0.5				@ Surface: 2" asphalt	
0931 0932 2		JH-165-1.5 JH-165-1.5 Dup		SM		@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
0934 3		JH-165-3.0				@ 3.0': trace clay.	Bentonite
4				SC			
0936 5		JH-165-5.0				@ 5.0': clayey SAND, brown, medium dense, slightly moist, very fine to fine grained, some medium grained, some silt, no odor or staining.	
6							
7							
8						TD 5'	
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011
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Boring ID

JH-16E
4-15-19

Project Name LAUSD David StarrJordan High School

Date Drilled

Location	2265 E 103rd St., Los Angeles
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Casing Type/Diameter

N/A

Drilling Method	Hand Auger - Millennium Env.
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Screen Type/Slot

N/A

Sampling Method	4-oz. Glass Jar
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Gravel Pack Type

N/A

Ground Elevation

Grout Type/Quantity

N/A

Logged By SAG

Depth to Water

N/A

Remarks

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
		JH-16E-0.5				@ Surface: 2" asphalt	
1						@0.5': silty sand, brown, medium dense, slightly moist, fine to medium sand, no odor or staining.	SAND
2		JH-16E-1.5		SM			
3		JH-16E-3.0				@3.0': trace clay.	Bentonite
4							
5		JH-16E-5.0		SC		@5.0': clayey sand, brown, medium dense, slightly moist, very fine to fine grained, some medium grained, some silt, no odor or staining.	
6							
7							
8						TDS'	
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor									
1	2	3	4	5	6	7	8	9	10



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-17W
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

0859
0901
0903

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
1		JH-17W-0.5				@ Surface: 2" asphalt	
2		JH-17W-1.5		SM		@ 0.5': Silty SAND, brown, medium dense, slightly moist, very fine to fine grained, Some medium grained, trace coarse grained, no odor or staining	SAND
3		JH-17W-3.0					Bentonite
4							
5						TD 3'	
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-175
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0905 1		JH-175-0.5				@ Surface: 2" asph 4	
0906 2		JH-175-1.5		SM		@ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
0908 3		JH-175-3.0				@ 1.5': Trace Clay.	Bentonite
4							
5						TO 3'	
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor


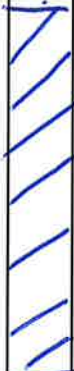


SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-17E
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

0910
0912
0914

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
						@ Surface: 2" asphalt		
1		JH-17E-0.5				@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.		SAND
2		JH-17E-1.5		SM		@ 1.5': trace clay.		Bentonite
3		JH-17E-3.0						
4								
5								
6								
7								
8								
9								

TD 3'

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-185
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
0851 1		JH-185-0.5				@ Surface: 2" asphalt		
0853 2		JH-185-1.5		SM		@ 0.5': Silty SAND, brown, medium dense, slightly moist, very fine to fine grained, Some medium grained, no odor or staining.		sand
0854 3		JH-185-3.0				@ 1.5': trace clay		bentonite
4								
5						TD 3'		
6								
7								
8								
9								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-18W
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0841 0843 0846 0848		JH-18W-0.5 JH-18W-0.5DUP				@ Surface: 2" asphalt	
1						@ 0.5': Silty SAND, brown, medium dense, slightly moist, very fine to fine grained, Some medium grained, no odor or staining.	SAND
2		JH-18W-1.5		SM		@ 1.5': trace clay.	Bentonite
3		JH-18W-30					
4							
5						TD 3'	
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-18E
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0842 1		JH-18E-0.5				@ Surface: 2" asphalt	
0844 0845 2		JH-18E-1.5 JH-18E-1.50up		SM		@ 0.5': silty SAND, brown, medium dense, slightly moist, very fine to fine grained, some medium grained, no odor or staining.	SAND
0847 3		JH-18E-3.0				@ 1.5': trace clay.	Bentonite
4						TO 3'	
5							
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-19E
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0820 1		JH-19E-0.5				@ Surface: 3" asphalt	
0823 2		JH-19E-1.5		SP		@ 0.5: SAND, brown, slightly moist, medium dense, very fine to fine grained, some medium grained, some silt, no odor or staining	SAND
0825 3		JH-19E-3.0					Bentonite
4						TD 3'	
5							
6							
7							
8							
9							


Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-19W
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0821 1		JH-19W-0.5				@ Surface: 3" asphalt	
0824 2		JH-19W-1.5		SM		@ 0.5': silty SAND, brown, medium dense, slightly moist, very fine to fine grained, some medium grained, no odor or staining.	 sand bentonite
0827 3		JH-19W-3.0				@ 3.0': some coarse grained.	
4							
5							
6							
7							
8							
9							

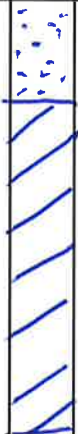
Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-195
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
0830 1		JH-195-0.5		SM		@ Surface: 2" asphalt		SAND
0832 2		JH-195-1.5				@ 0.5': Silty SAND, brown, Slightly moist, medium dense, very fine to fine grained, some medium grained, trace clay, no odor or staining.		
0834 3		JH-195-3.0				@ 3.0': Some coarse grained.		
4								
5								
6								
7								
8								
9								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-28N
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0909 1		JH-28N-0.5				@ Surface: asphalt 3"	
0911 2		JH-28N-1.5		SM		@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, some clay, no odor or staining.	SAND
0913 3		JH-28N-3.0				@ 3.0': no clay.	Bentonite
4							
5							
6						TD 3'	
7							
8							
9							



Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-28W
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0921 1		JH-28W-0.5				@ Surface: asphalt	 SAND
0923 2		JH-28W-1.5		SM		@ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, trace clay, no odor or staining.	 Bentonite
0926 3		JH-28W-3.0					
4							
5						TD 31	
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-286
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0854 1		JH-286-0.5		SM		@ Surface: asphalt 2" @ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, trace clay, no odor or staining.	SAND
0901 2		JH-286-1.5				@ 1.5': no clay.	Bentonite
0904 3		JH-286-3.0		SP		@ 3.0': SAND, brown, medium dense, slightly moist, very fine to fine grained, no some silt, no odor or staining.	
4							
5							
6						to 3'	
7							
8							
9							


Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number 11640.011 Boring ID JH-29N
Project Name LAUSD David Starr Jordan High School Date Drilled 4-16-19
Location 2265 E 103rd St., Los Angeles Casing Type/Diameter N/A
Drilling Method Hand Auger - Millennium Env. Screen Type/Slot N/A
Sampling Method 4-oz. Glass Jar Gravel Pack Type N/A
Ground Elevation Grout Type/Quantity N/A
Logged By SAG Depth to Water N/A
Remarks

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0843 0844 1		JH-29N-0.5 JH-29N-0.5 DUP				@ Surface: asphalt 3" @0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, some coarse grained, trace clay, no odor or staining.	 SAND Bentonite
0846 2		JH-29N-1.5		SM			
0848 3		JH-29N-3.0				@ 3.0': no coarse grained.	
4							
5							
6						TO 3'	
7							
8							
9							




Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-29E
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
0925 1		JH-29E-0.5				@ Surface: asphalt 3"		SAND
0927 2		JH-29E-1.5		SM		@ 0.5: Silty SAND, brown, medium dense, slightly moist, fine to medium grained, no trace clay, no odor or staining.		Bentonite
0929 3		JH-29E-3.0				@ 3.0': no clay.		
4								
5								
6								
7								
8								
9								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-29W
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0.5		JH-29W-0.5				@ Surface: asphalt 3"	
1						@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, some clay, no odor or staining.	SAND
2		JH-29W-1.5		SM			
3							Bentonite
4		JH-29W-3.0				@ 3.0': no clay.	
5							
6							
7						TD 3'	
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-30W
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0943		JH-30 ^W -0.5				@ Surface: asphalt 2"	
0945	1					@ 0.5': Silty SAND, brown, medium dense, slightly moist, fine to medium grained, trace clay, no odor or staining.	SAND
	2	JH-30 ^W -1.5		SM			Bentomite
0947	3	JH-30 ^W -3.0				@ 3.0': No clay.	
	4						
	5						
	6						
	7						
	8						
	9					TD 3'	

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-31N
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0756		JH-31N-0.5				@ Surface: 3" asphalt	
1				SM		@ 0.5: silty SAND, brown, medium dense, slightly moist, very fine to fine grained, some trace clay, no odor or staining.	Sand
0758		JH-31N-1.5					Bentonite
2							
3		JH-31N-3.0					
0800							
4							
5						TD 3'	
6							
7							
8							
9							


Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-31W
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
0746		JH-31W-0.5				@ Surface: 2" asphalt		Sand Bentonite
1						@ 0.5: clayey SAND, dark brown, medium dense, slightly moist, v-f sand, some coarse sand, trace silt, no odor or staining.		
0748		JH-31W-1.5						
2								
0751		JH-31W-3.0				@ 3.0': SAND, dark brown, medium dense, slight moist, very fine to fine sand, some silt and clay, no odor or staining.		
3								
4								
5								
6						Total depth 3' Backfilled with hydrated bentonite and sand.		
7								
8								
9								

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	JH-31E
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM	
0750		JH-31E-0.5		SC		@ Surface: 2" asphalt		
1						@ 0.5: clayey SAND, brown, medium dense, slightly moist, very fine to fine sand, some medium sand, trace silt, no odor or staining.		Sand
0753		JH-31E-1.5						
2								
0755		JH-31E-3.0		SM		@ 3.0: SAND, brown, medium dense, slightly moist, very fine to fine sand, some medium sand, some clay and silt, no odor or staining.		bentonite
3								
4								
5								
6								
7								
8								
9						TD: 3'		

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	SSI-30-S-E
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0930 1		SSI-30-S-E-0.5				@ Surface: asphalt 2" @ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained, trace clay, no odor or staining.	SAND
0930 2		SSI-30-S-E-1.5		SM			
0940 3		SSI-30-S-E-3.0				@ 3.0': some clay.	Bentonite
0944 5		SSI-30-S-E-5.0					
6							
7							
8						TD 5'	
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011
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Boring ID

SS1-6U

Project Name LAUSD David StarrJordan High School

Date Drilled

4-15-10

Location	2265 E 103rd St., Los Angeles
----------	-------------------------------

Casing Type/Diameter

N/A

Drilling Method	Hand Auger - Millennium Env.
-----------------	------------------------------

Screen Type/Slot

N/A

Sampling Method	4-oz. Glass Jar
-----------------	-----------------

Gravel Pack Type

N/A

Ground Elevation

Grout Type/Quantity






N/A

Logged By SAG

Depth to Water

N/A

Remarks

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
						@ Surface: 2" topsoil	
1		SSI-64-0.5 SSI-64-0.5 DUP				@ 0.5': silty SAND, brown, medium dense, slightly moist, fine to medium grained no odor or staining	 SAND
2		SSI-64-1.5		SM		@ 1.5': trace clay	 Bentonite
3		SSI-64-3.0					
4				SC			
5		SSI-64-5.0				@ 5.0': very fine to medium grained.	
6							
7							
8							
9						TDS'	

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor									
1	2	3	4	5	6	7	8	9	10



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	SSI-65
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0821 1		SSI-65-0.5				@ Surface: 2" top soil @ 0.5': silty sand, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
0822 2		SSI-65-1.5		SM			
0824 3		SSI-65-3.0				@ 3.0': trace clay.	Bentonite
0826 5		SSI-65-5.0				TD 5'	
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	SSI-66
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0810 1		SSI-66-0.5				@ Surface: 2" topsoil	
0812 2		SSI-66-1.5				@ 0.5': silty SAND, brown medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
0813 3		SSI-66-3.0		SM		@ 3.0': trace clay.	Bentonite
0815 5		SSI-66-5.0					
6							
7							
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	SSI-67
Project Name	LAUSD David StarrJordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0806 1		SSI-67-0.5				@ Surface: 2" topsoil	
0808 2		SSI-67-1.5				@ 0.5' silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
0811 3		SSI-67-3.0		sm		@ 3.0' trace clay.	Bentonite
0814 5		SSI-67-5.0					
6							
7						TD 5'	
8							
9							

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	SSI-68
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-16-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0757 1		SSI-68-0.5				@ Surface: 2" topsoil	
0759 2		SSI-68-1.5		SM		@ 0.5: silty SAND, brown, medium dense, slightly moist, fine to medium grained, no odor or staining.	SAND
0801 3		SSI-68-3.0				@ 3.0: some clay.	Bentonite
				SC			
0803 5		SSI-68-5.0				@ 5.0: clayey SAND, brown, medium dense, slightly moist, very fine to medium grained, some silt, no odor or staining.	
6							
7							
8							
9						TD 5'	

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor



SOIL BORING LOG

A LEIGHTON GROUP COMPANY

Project Number	11640.011	Boring ID	SSI-bq
Project Name	LAUSD David Starr Jordan High School	Date Drilled	4-15-19
Location	2265 E 103rd St., Los Angeles	Casing Type/Diameter	N/A
Drilling Method	Hand Auger - Millennium Env.	Screen Type/Slot	N/A
Sampling Method	4-oz. Glass Jar	Gravel Pack Type	N/A
Ground Elevation		Grout Type/Quantity	N/A
Logged By	SAG	Depth to Water	N/A
Remarks			

DEPTH (ft. BGL)	RECOVERY (inches)	SAMPLE ID	PID (ppm)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	BORING BACKFILL WELL DIAGRAM
0803		SSI-bq-0.5				@ Surface: 3" asphalt	
	1					@ 0.5': Clayey SAND, brown,	
						slightly moist, medium dense,	
0805	2	SSI-bq-1.5		SC		very fine to fine grained,	
						some medium grained,	
						trace silt, no odor or	
						staining.	
0807	3	SSI-bq-3.0					
	4					TD 3'	
	5						
	6						
	7						
	8						
	9						

Description Order - NAME: color, density, moisture, grain size, minor constituents, observations, staining, odor

APPENDIX C

PHOTOGRAPHIC LOG



Leighton



Leighton Consulting, Inc.

PHOTOGRAPHIC LOG

4/15/19 and 4/16/19

Client Name: Los Angeles Unified School District	Site Location: David StarrJordan High School, 2265 E 103 rd St., Los Angeles, California	Project No. 11640.011
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Photo No. 1	
View Direction of Photo: Northwest	
Description: General view of the former tennis court area at the Site (paved).	

Photo No. 2	
View Direction of Photo: North east	
Description: General view of the baseball field area at the Site (unpaved).	



PHOTOGRAPHIC LOG

4/15/19 and 4/16/19

Client Name: Los Angeles Unified School District	Site Location: David StarrJordan High School, 2265 E 103 rd St., Los Angeles, California	Project No. 11640.011
--	---	---------------------------------



Photo No. 3	
View Direction of Photo: Southeast	
Description: Sample locations in pavement were cored using a coring machine.	

Photo No. 4	
View Direction of Photo: North	
Description: Soil borings were advanced using a hand auger and soil samples were retained in 4-ounce glass jars.	



Client Name: Los Angeles Unified School District	Site Location: David StarrJordan High School, 2265 E 103 rd St., Los Angeles, California	Project No. 11640.011
--	---	---------------------------------

Photo No. 5	
View Direction of Photo: N/A	
Description: Geophysical survey findings resulted in the relocation of several step-out sample locations located north of the bleachers.	

Photo No. 6	
View Direction of Photo: N/A	
Description: Following soil sampling activities, sample locations located in paved areas were completed with concrete at the surface.	

APPENDIX D

LABORATORY ANALYTICAL REPORTS



Leighton



April 18, 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 : 1901519

Client Reference : LAUSD - Jordan High School, 11640.011

Enclosed are the results for sample(s) received on April 15, 2019 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 "E Rodriguez", is written over a light blue horizontal line.

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 - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JH-31W-0.5	1901519-01	Soil	4/15/19 7:46	4/15/19 14:08
JH-31W-1.5	1901519-02	Soil	4/15/19 7:48	4/15/19 14:08
JH-31E-0.5	1901519-04	Soil	4/15/19 7:50	4/15/19 14:08
JH-31E-1.5	1901519-05	Soil	4/15/19 7:53	4/15/19 14:08
JH-31N-0.5	1901519-07	Soil	4/15/19 7:56	4/15/19 14:08
JH-31N-1.5	1901519-08	Soil	4/15/19 7:58	4/15/19 14:08
SS1-69-0.5	1901519-10	Soil	4/15/19 8:03	4/15/19 14:08
SS1-69-1.5	1901519-11	Soil	4/15/19 8:05	4/15/19 14:08
JH-19E-0.5	1901519-13	Soil	4/15/19 8:20	4/15/19 14:08
JH-19E-1.5	1901519-14	Soil	4/15/19 8:23	4/15/19 14:08
JH-19W-0.5	1901519-16	Soil	4/15/19 8:21	4/15/19 14:08
JH-19W-1.5	1901519-17	Soil	4/15/19 8:24	4/15/19 14:08
JH-19S-0.5	1901519-19	Soil	4/15/19 8:30	4/15/19 14:08
JH-19S-1.5	1901519-20	Soil	4/15/19 8:32	4/15/19 14:08
JH-18S-0.5	1901519-22	Soil	4/15/19 8:51	4/15/19 14:08
JH-18S-1.5	1901519-23	Soil	4/15/19 8:53	4/15/19 14:08
JH-18W-0.5	1901519-25	Soil	4/15/19 8:41	4/15/19 14:08
JH-18W-0.5DUP	1901519-26	Soil	4/15/19 8:43	4/15/19 14:08
JH-18W-1.5	1901519-27	Soil	4/15/19 8:46	4/15/19 14:08
JH-18E-0.5	1901519-29	Soil	4/15/19 8:42	4/15/19 14:08
JH-18E-1.5	1901519-30	Soil	4/15/19 8:44	4/15/19 14:08
JH-18E-1.5DUP	1901519-31	Soil	4/15/19 8:45	4/15/19 14:08
JH-17W-0.5	1901519-33	Soil	4/15/19 8:59	4/15/19 14:08
JH-17W-1.5	1901519-34	Soil	4/15/19 9:01	4/15/19 14:08
JH-17S-0.5	1901519-36	Soil	4/15/19 9:05	4/15/19 14:08
JH-17S-1.5	1901519-37	Soil	4/15/19 9:06	4/15/19 14:08
JH-17E-0.5	1901519-39	Soil	4/15/19 9:10	4/15/19 14:08
JH-17E-1.5	1901519-40	Soil	4/15/19 9:12	4/15/19 14:08
JH-16W-0.5	1901519-42	Soil	4/15/19 9:20	4/15/19 14:08
JH-16W-0.5DUP	1901519-43	Soil	4/15/19 9:21	4/15/19 14:08
JH-16W-1.5	1901519-44	Soil	4/15/19 9:22	4/15/19 14:08
JH-16S-0.5	1901519-47	Soil	4/15/19 9:30	4/15/19 14:08
JH-16S-1.5	1901519-48	Soil	4/15/19 9:31	4/15/19 14:08
JH-16S-1.5DUP	1901519-49	Soil	4/15/19 9:32	4/15/19 14:08
JH-16E-0.5	1901519-52	Soil	4/15/19 9:35	4/15/19 14:08
JH-16E-1.5	1901519-53	Soil	4/15/19 9:37	4/15/19 14:08
JH-8S-0.5	1901519-56	Soil	4/15/19 10:06	4/15/19 14:08



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

JH-8S-1.5	1901519-57	Soil	4/15/19 10:09	4/15/19 14:08
JH-8E-0.5	1901519-59	Soil	4/15/19 9:58	4/15/19 14:08
JH-8E-1.5	1901519-60	Soil	4/15/19 10:01	4/15/19 14:08
JH-8N-0.5	1901519-62	Soil	4/15/19 10:00	4/15/19 14:08
JH-8N-1.5	1901519-63	Soil	4/15/19 10:02	4/15/19 14:08
JH-8W-0.5	1901519-65	Soil	4/15/19 10:12	4/15/19 14:08
JH-8W-0.5DUP	1901519-66	Soil	4/15/19 10:13	4/15/19 14:08
JH-8W-1.5	1901519-67	Soil	4/15/19 10:14	4/15/19 14:08
SS1-14-E-E-0.5	1901519-69	Soil	4/15/19 10:18	4/15/19 14:08
SS1-14-E-E-1.5	1901519-70	Soil	4/15/19 10:20	4/15/19 14:08
SS1-64-0.5	1901519-73	Soil	4/15/19 10:29	4/15/19 14:08
SS1-64-0.5DUP	1901519-74	Soil	4/15/19 10:30	4/15/19 14:08
SS1-64-1.5	1901519-75	Soil	4/15/19 10:31	4/15/19 14:08
JH-6W-0.5	1901519-78	Soil	4/15/19 11:06	4/15/19 14:08
JH-6W-1.5	1901519-79	Soil	4/15/19 11:08	4/15/19 14:08
JH-6W-1.5DUP	1901519-80	Soil	4/15/19 11:09	4/15/19 14:08
JH-6E-0.5	1901519-82	Soil	4/15/19 11:01	4/15/19 14:08
JH-6E-1.5	1901519-83	Soil	4/15/19 11:03	4/15/19 14:08
JH-6S-0.5	1901519-85	Soil	4/15/19 10:56	4/15/19 14:08
JH-6S-1.5	1901519-86	Soil	4/15/19 10:59	4/15/19 14:08
JH-6N-0.5	1901519-88	Soil	4/15/19 10:53	4/15/19 14:08
JH-6N-1.5	1901519-89	Soil	4/15/19 10:56	4/15/19 14:08
JH-5E-0.5	1901519-91	Soil	4/15/19 12:31	4/15/19 14:08
JH-5E-1.5	1901519-92	Soil	4/15/19 12:33	4/15/19 14:08
JH-5NW-0.5	1901519-94	Soil	4/15/19 12:27	4/15/19 14:08
JH-5NW-1.5	1901519-95	Soil	4/15/19 12:28	4/15/19 14:08
JH-5SW-0.5	1901519-97	Soil	4/15/19 12:22	4/15/19 14:08
JH-5SW-1.5	1901519-98	Soil	4/15/19 12:25	4/15/19 14:08
JH-4E-0.5	1901519-AA	Soil	4/15/19 12:35	4/15/19 14:08
JH-4E-1.5	1901519-AB	Soil	4/15/19 12:36	4/15/19 14:08
EB-041519	1901519-AD	Water	4/15/19 0:00	4/15/19 14:08



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-31W-0.5

Lab ID: 1901519-01

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	34	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:02	

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	13	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:45	D1

Client Sample ID JH-31W-1.5

Lab ID: 1901519-02

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	B9D0792	04/17/2019	04/18/19 12:07	

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	8.2	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:49	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-31E-0.5

Lab ID: 1901519-04

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	14	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:08	

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	B9D0745	04/16/2019	04/17/19 17:50	D1

Client Sample ID JH-31E-1.5

Lab ID: 1901519-05

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	4.3	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:10	

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	15	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:51	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-31N-0.5

Lab ID: 1901519-07

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	27	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:11	

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	18	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:53	D1

Client Sample ID JH-31N-1.5

Lab ID: 1901519-08

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	1.7	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:15	

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	B9D0745	04/16/2019	04/17/19 17:54	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID SS1-69-0.5

Lab ID: 1901519-10

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	50	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:16	

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	21	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:55	D1

Client Sample ID SS1-69-1.5

Lab ID: 1901519-11

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	22	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:18	

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	15	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:56	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-19E-0.5

Lab ID: 1901519-13

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	21	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:20	

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	4.0	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:57	D1

Client Sample ID JH-19E-1.5

Lab ID: 1901519-14

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	9.1	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:22	

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	3.4	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:58	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-19W-0.5

Lab ID: 1901519-16

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	26	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:23	

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	2.7	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:59	D1

Client Sample ID JH-19W-1.5

Lab ID: 1901519-17

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	81	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:25	

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	17	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:00	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-19S-0.5

Lab ID: 1901519-19

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	58	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:26	

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	15	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:01	D1

Client Sample ID JH-19S-1.5

Lab ID: 1901519-20

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	8.8	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:27	

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	4.5	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:03	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-18S-0.5

Lab ID: 1901519-22

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	85	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:31	

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	8.7	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:04	D1

Client Sample ID JH-18S-1.5

Lab ID: 1901519-23

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	16	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:33	

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	B9D0745	04/16/2019	04/17/19 18:05	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-18W-0.5

Lab ID: 1901519-25

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	26	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:34	

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	17	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:06	D1

Client Sample ID JH-18W-0.5DUP

Lab ID: 1901519-26

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	46	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:35	

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	22	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:07	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-18W-1.5

Lab ID: 1901519-27

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	190	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:19	

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	24	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:07	D1

Client Sample ID JH-18E-0.5

Lab ID: 1901519-29

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	86	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:22	

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	10	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:10	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-18E-1.5

Lab ID: 1901519-30

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	440	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:23	

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	16	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:16	D1

Client Sample ID JH-18E-1.5DUP

Lab ID: 1901519-31

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	81	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:24	

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	B9D0746	04/16/2019	04/17/19 18:17	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-17W-0.5

Lab ID: 1901519-33

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	110	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:25	

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	17	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:17	D1

Client Sample ID JH-17W-1.5

Lab ID: 1901519-34

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	530	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:28	

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	29	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:18	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-17S-0.5

Lab ID: 1901519-36

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	76	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:29	

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	18	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:19	D1

Client Sample ID JH-17S-1.5

Lab ID: 1901519-37

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	19	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:30	

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	9.7	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:20	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-17E-0.5

Lab ID: 1901519-39

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	14	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:31	

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	3.4	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:21	D1

Client Sample ID JH-17E-1.5

Lab ID: 1901519-40

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	65	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:32	

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	B9D0746	04/16/2019	04/17/19 18:23	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-16W-0.5

Lab ID: 1901519-42

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	22	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:33	

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	4.8	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:24	D1

Client Sample ID JH-16W-0.5DUP

Lab ID: 1901519-43

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	B9D0793	04/17/2019	04/18/19 12:34	

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	B9D0746	04/16/2019	04/17/19 18:25	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-16W-1.5

Lab ID: 1901519-44

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	73	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:35	

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	B9D0746	04/16/2019	04/17/19 18:26	D1

Client Sample ID JH-16S-0.5

Lab ID: 1901519-47

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	79	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:36	

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	23	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:27	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-16S-1.5

Lab ID: 1901519-48

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	7.4	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:37	

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	7.6	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:27	D1

Client Sample ID JH-16S-1.5DUP

Lab ID: 1901519-49

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	6.8	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:41	

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	8.1	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:28	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-16E-0.5

Lab ID: 1901519-52

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	16	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:42	

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	B9D0746	04/16/2019	04/17/19 18:29	D1

Client Sample ID JH-16E-1.5

Lab ID: 1901519-53

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	56	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:43	

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	37	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:30	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-8S-0.5

Lab ID: 1901519-56

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	21	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:44	

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	3.6	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:31	D1

Client Sample ID JH-8S-1.5

Lab ID: 1901519-57

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	11	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:25	

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	34	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:33	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-8E-0.5

Lab ID: 1901519-59

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	3.1	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:29	

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	B9D0746	04/16/2019	04/17/19 18:34	D1

Client Sample ID JH-8E-1.5

Lab ID: 1901519-60

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	25	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:31	

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	70	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:36	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-8N-0.5

Lab ID: 1901519-62

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	27	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:32	

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	B9D0747	04/16/2019	04/17/19 18:40	D1

Client Sample ID JH-8N-1.5

Lab ID: 1901519-63

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	7.4	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:34	

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	59	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:43	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-8W-0.5

Lab ID: 1901519-65

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	21	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:38	

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	17	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:44	D1

Client Sample ID JH-8W-0.5DUP

Lab ID: 1901519-66

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	23	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:39	

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	15	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:45	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-8W-1.5

Lab ID: 1901519-67

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	52	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:40	

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	17	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:45	D1

Client Sample ID SS1-14-E-E-0.5

Lab ID: 1901519-69

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	30	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:41	

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	B9D0747	04/16/2019	04/17/19 18:46	D1



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Leighton Consulting, Inc.
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID SS1-14-E-E-1.5

Lab ID: 1901519-70

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	15	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:42	

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	B9D0747	04/16/2019	04/17/19 18:47	D1

Client Sample ID SS1-64-0.5

Lab ID: 1901519-73

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	78	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:44	

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	15	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:48	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID SS1-64-0.5DUP

Lab ID: 1901519-74

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	73	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:45	

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	22	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:49	D1

Client Sample ID SS1-64-1.5

Lab ID: 1901519-75

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	B9D0794	04/17/2019	04/18/19 13:46	

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	22	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:49	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-6W-0.5

Lab ID: 1901519-78

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	3.1	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:47	

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	6.4	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:50	D1

Client Sample ID JH-6W-1.5

Lab ID: 1901519-79

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	23	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:48	

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	94	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:53	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-6W-1.5DUP

Lab ID: 1901519-80

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	19	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:52	

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	80	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:54	D1

Client Sample ID JH-6E-0.5

Lab ID: 1901519-82

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	2.9	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:53	

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	6.0	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:54	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-6E-1.5

Lab ID: 1901519-83

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	38	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:55	

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	130	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:55	D6

Client Sample ID JH-6S-0.5

Lab ID: 1901519-85

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	2.9	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:56	

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	4.2	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:56	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-6S-1.5

Lab ID: 1901519-86

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	85	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:47	

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	280	5.0	0.22	100	B9D0747	04/16/2019	04/17/19 19:15	D6

Client Sample ID JH-6N-0.5

Lab ID: 1901519-88

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	6.6	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:53	

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	5.8	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:58	D1



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Leighton Consulting, Inc.
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-6N-1.5

Lab ID: 1901519-89

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	43	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:55	

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	420	5.0	0.22	100	B9D0747	04/16/2019	04/17/19 19:16	D6

Client Sample ID JH-5E-0.5

Lab ID: 1901519-91

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	10	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:55	

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	12	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:03	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-5E-1.5

Lab ID: 1901519-92

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	B9D0795	04/17/2019	04/18/19 12:56	

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	5.4	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:07	D1

Client Sample ID JH-5NW-0.5

Lab ID: 1901519-94

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	28	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:57	

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	4.5	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:08	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-5NW-1.5

Lab ID: 1901519-95

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	6.2	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:58	

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	3.1	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:08	D1

Client Sample ID JH-5SW-0.5

Lab ID: 1901519-97

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	32	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:59	

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	5.2	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:09	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-5SW-1.5

Lab ID: 1901519-98

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	B9D0795	04/17/2019	04/18/19 13:00	

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	11	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:10	D1

Client Sample ID JH-4E-0.5

Lab ID: 1901519-AA

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	4.2	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:01	

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	3.8	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:13	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

DETECTION SUMMARY

Client Sample ID JH-4E-1.5

Lab ID: 1901519-AB

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	B9D0795	04/17/2019	04/18/19 13:02	

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	6.5	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:13	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-31W-0.5

Lab ID: 1901519-01

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	34	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:02	

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	13	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:45	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-31W-1.5

Lab ID: 1901519-02

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	B9D0792	04/17/2019	04/18/19 12:07	

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	8.2	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:49	D1



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Client Sample ID JH-31E-0.5

Lab ID: 1901519-04

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	14	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:08	

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	B9D0745	04/16/2019	04/17/19 17:50	D1



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Reported : 04/18/2019

Client Sample ID JH-31E-1.5

Lab ID: 1901519-05

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	4.3	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:10	

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	15	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:51	D1



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Client Sample ID JH-31N-0.5

Lab ID: 1901519-07

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	27	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:11	

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	18	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:53	D1



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Client Sample ID JH-31N-1.5

Lab ID: 1901519-08

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	1.7	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:15	

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	B9D0745	04/16/2019	04/17/19 17:54	D1



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Client Sample ID SS1-69-0.5

Lab ID: 1901519-10

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	50	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:16	

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	21	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:55	D1



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Client Sample ID SS1-69-1.5

Lab ID: 1901519-11

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	22	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:18	

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	15	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:56	D1



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Client Sample ID JH-19E-0.5

Lab ID: 1901519-13

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	21	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:20	

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	4.0	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:57	D1



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Client Sample ID JH-19E-1.5

Lab ID: 1901519-14

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	9.1	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:22	

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	3.4	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:58	D1



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Client Sample ID JH-19W-0.5

Lab ID: 1901519-16

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	26	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:23	

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	2.7	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:59	D1



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Client Sample ID JH-19W-1.5

Lab ID: 1901519-17

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	81	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:25	

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	17	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:00	D1



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Client Sample ID JH-19S-0.5

Lab ID: 1901519-19

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	58	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:26	

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	15	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:01	D1



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Client Sample ID JH-19S-1.5

Lab ID: 1901519-20

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	8.8	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:27	

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	4.5	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:03	D1



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Client Sample ID JH-18S-0.5

Lab ID: 1901519-22

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	85	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:31	

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	8.7	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:04	D1



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Client Sample ID JH-18S-1.5

Lab ID: 1901519-23

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	16	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:33	

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	B9D0745	04/16/2019	04/17/19 18:05	D1



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Client Sample ID JH-18W-0.5

Lab ID: 1901519-25

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	26	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:34	

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	17	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:06	D1



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Client Sample ID JH-18W-0.5DUP

Lab ID: 1901519-26

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	46	1.0	0.18	1	B9D0792	04/17/2019	04/18/19 12:35	

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	22	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:07	D1



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Client Sample ID JH-18W-1.5

Lab ID: 1901519-27

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	190	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:19	

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	24	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 18:07	D1



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Client Sample ID JH-18E-0.5

Lab ID: 1901519-29

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	86	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:22	

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	10	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:10	D1



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Client Sample ID JH-18E-1.5

Lab ID: 1901519-30

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	440	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:23	

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	16	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:16	D1



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Client Sample ID JH-18E-1.5DUP

Lab ID: 1901519-31

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	81	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:24	

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	B9D0746	04/16/2019	04/17/19 18:17	D1



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Client Sample ID JH-17W-0.5

Lab ID: 1901519-33

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	110	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:25	

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	17	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:17	D1



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Client Sample ID JH-17W-1.5

Lab ID: 1901519-34

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	530	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:28	

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	29	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:18	D1



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Client Sample ID JH-17S-0.5

Lab ID: 1901519-36

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	76	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:29	

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	18	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:19	D1



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Client Sample ID JH-17S-1.5

Lab ID: 1901519-37

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	19	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:30	

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	9.7	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:20	D1



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Client Sample ID JH-17E-0.5

Lab ID: 1901519-39

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	14	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:31	

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	3.4	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:21	D1



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Client Sample ID JH-17E-1.5

Lab ID: 1901519-40

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	65	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:32	

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	B9D0746	04/16/2019	04/17/19 18:23	D1



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Client Sample ID JH-16W-0.5

Lab ID: 1901519-42

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	22	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:33	

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	4.8	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:24	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

Client Sample ID JH-16W-0.5DUP

Lab ID: 1901519-43

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	B9D0793	04/17/2019	04/18/19 12:34	

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	B9D0746	04/16/2019	04/17/19 18:25	D1



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-16W-1.5

Lab ID: 1901519-44

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	73	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:35	

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	B9D0746	04/16/2019	04/17/19 18:26	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-16S-0.5

Lab ID: 1901519-47

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	79	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:36	

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	23	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:27	D1



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-16S-1.5

Lab ID: 1901519-48

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	7.4	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:37	

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	7.6	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:27	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-16S-1.5DUP

Lab ID: 1901519-49

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	6.8	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:41	

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	8.1	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:28	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-16E-0.5

Lab ID: 1901519-52

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	16	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:42	

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	B9D0746	04/16/2019	04/17/19 18:29	D1



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-16E-1.5

Lab ID: 1901519-53

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	56	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:43	

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	37	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:30	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-8S-0.5

Lab ID: 1901519-56

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	21	1.0	0.18	1	B9D0793	04/17/2019	04/18/19 12:44	

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	3.6	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:31	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-8S-1.5

Lab ID: 1901519-57

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	11	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:25	

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	34	1.0	0.04	20	B9D0746	04/16/2019	04/17/19 18:33	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-8E-0.5

Lab ID: 1901519-59

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	3.1	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:29	

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	B9D0746	04/16/2019	04/17/19 18:34	D1



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Project Number : LAUSD - Jordan High School, 11640.011

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Reported : 04/18/2019

Client Sample ID JH-8E-1.5

Lab ID: 1901519-60

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	25	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:31	

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	70	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:36	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-8N-0.5

Lab ID: 1901519-62

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	27	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:32	

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	B9D0747	04/16/2019	04/17/19 18:40	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-8N-1.5

Lab ID: 1901519-63

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	7.4	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:34	

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	59	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:43	D1



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Project Number : LAUSD - Jordan High School, 11640.011

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Reported : 04/18/2019

Client Sample ID JH-8W-0.5

Lab ID: 1901519-65

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	21	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:38	

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	17	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:44	D1



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-8W-0.5DUP

Lab ID: 1901519-66

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	23	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:39	

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	15	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:45	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

Client Sample ID JH-8W-1.5

Lab ID: 1901519-67

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	52	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:40	

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	17	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:45	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID SS1-14-E-E-0.5

Lab ID: 1901519-69

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	30	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:41	

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	B9D0747	04/16/2019	04/17/19 18:46	D1



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Project Number : LAUSD - Jordan High School, 11640.011

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Reported : 04/18/2019

Client Sample ID SS1-14-E-E-1.5

Lab ID: 1901519-70

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	15	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:42	

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	B9D0747	04/16/2019	04/17/19 18:47	D1



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17781 Cowan Street
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

Client Sample ID SS1-64-0.5

Lab ID: 1901519-73

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	78	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:44	

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	15	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:48	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID SS1-64-0.5DUP

Lab ID: 1901519-74

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	73	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:45	

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	22	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:49	D1



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID SS1-64-1.5

Lab ID: 1901519-75

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	B9D0794	04/17/2019	04/18/19 13:46	

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	22	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:49	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-6W-0.5

Lab ID: 1901519-78

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	3.1	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:47	

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	6.4	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:50	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-6W-1.5

Lab ID: 1901519-79

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	23	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:48	

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	94	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:53	D1



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-6W-1.5DUP

Lab ID: 1901519-80

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	19	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:52	

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	80	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:54	D1



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-6E-0.5

Lab ID: 1901519-82

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	2.9	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:53	

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	6.0	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:54	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-6E-1.5

Lab ID: 1901519-83

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	38	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:55	

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	130	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:55	D6



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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-6S-0.5

Lab ID: 1901519-85

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	2.9	1.0	0.18	1	B9D0794	04/17/2019	04/18/19 13:56	

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	4.2	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:56	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-6S-1.5

Lab ID: 1901519-86

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	85	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:47	

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	280	5.0	0.22	100	B9D0747	04/16/2019	04/17/19 19:15	D6



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

Client Sample ID JH-6N-0.5

Lab ID: 1901519-88

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	6.6	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:53	

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	5.8	1.0	0.04	20	B9D0747	04/16/2019	04/17/19 18:58	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-6N-1.5

Lab ID: 1901519-89

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	43	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:55	

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	420	5.0	0.22	100	B9D0747	04/16/2019	04/17/19 19:16	D6



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Client Sample ID JH-5E-0.5

Lab ID: 1901519-91

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	10	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:55	

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	12	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:03	D1



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Reported : 04/18/2019

Client Sample ID JH-5E-1.5

Lab ID: 1901519-92

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	B9D0795	04/17/2019	04/18/19 12:56	

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	5.4	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:07	D1



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Reported : 04/18/2019

Client Sample ID JH-5NW-0.5

Lab ID: 1901519-94

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	28	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:57	

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	4.5	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:08	D1



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Reported : 04/18/2019

Client Sample ID JH-5NW-1.5

Lab ID: 1901519-95

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	6.2	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:58	

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	3.1	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:08	D1



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Reported : 04/18/2019

Client Sample ID JH-5SW-0.5

Lab ID: 1901519-97

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	32	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 12:59	

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	5.2	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:09	D1



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Reported : 04/18/2019

Client Sample ID JH-5SW-1.5

Lab ID: 1901519-98

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	B9D0795	04/17/2019	04/18/19 13:00	

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	11	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:10	D1



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Reported : 04/18/2019

Client Sample ID JH-4E-0.5

Lab ID: 1901519-AA

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	4.2	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:01	

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	3.8	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:13	D1



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Client Sample ID JH-4E-1.5

Lab ID: 1901519-AB

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	B9D0795	04/17/2019	04/18/19 13:02	

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	6.5	1.0	0.04	20	B9D0757	04/16/2019	04/17/19 19:13	D1



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Reported : 04/18/2019

Client Sample ID EB-041519

Lab ID: 1901519-AD

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.0050	1	B9D0829	04/17/2019	04/18/19 08:34	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B9D0780	04/17/2019	04/18/19 12:40	



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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 Limits	RPD	RPD Limit	Notes
Batch B9D0792 - EPA 3050B_S										
Blank (B9D0792-BLK1)					Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	ND	1.0	0.18							
LCS (B9D0792-BS1)					Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	41.5315	1.0	0.18	50.0000		83.1	80 - 120			
Duplicate (B9D0792-DUP1)					Source: 1901519-01 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	30.2207	1.0	0.18		34.0117			11.8	20	
Matrix Spike (B9D0792-MS1)					Source: 1901519-01 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	118.571	1.0	0.18	100.502	34.0117	84.1	29 - 126			
Matrix Spike Dup (B9D0792-MSD1)					Source: 1901519-01 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	107.247	1.0	0.18	99.5025	34.0117	73.6	29 - 126	10.0	20	



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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 Limits	RPD	RPD Limit	Notes
Batch B9D0793 - EPA 3050B_S										
Blank (B9D0793-BLK1)					Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	ND	1.0	0.18							
LCS (B9D0793-BS1)					Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	44.3174	1.0	0.18	50.0000		88.6	80 - 120			
Duplicate (B9D0793-DUP1)					Source: 1901519-27 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	637.587	1.0	0.18		187.467			109	20	R
Matrix Spike (B9D0793-MS1)					Source: 1901519-27 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	279.821	1.0	0.18	100.502	187.467	91.9	29 - 126			
Matrix Spike Dup (B9D0793-MSD1)					Source: 1901519-27 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	255.790	1.0	0.18	100.000	187.467	68.3	29 - 126	8.97	20	



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Project Number : LAUSD - Jordan High School, 11640.011
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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 Limits	RPD	RPD Limit	Notes
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Batch B9D0794 - EPA 3050B_S

Blank (B9D0794-BLK1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead	ND	1.0	0.18							
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LCS (B9D0794-BS1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead	43.1449	1.0	0.18	50.0000		86.3	80 - 120			
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Duplicate (B9D0794-DUP1)

Source: 1901519-57

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead	10.0110	1.0	0.18		11.3164			12.2	20	
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Matrix Spike (B9D0794-MS1)

Source: 1901519-57

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead	78.8048	1.0	0.18	99.5025	11.3164	67.8	29 - 126			
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Matrix Spike Dup (B9D0794-MSD1)

Source: 1901519-57

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead	78.6872	1.0	0.18	100.000	11.3164	67.4	29 - 126	0.149	20	
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
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Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
Batch B9D0795 - EPA 3050B_S									
Blank (B9D0795-BLK1)					Prepared: 4/17/2019 Analyzed: 4/18/2019				
Lead	ND	1.0	0.18						
LCS (B9D0795-BS1)					Prepared: 4/17/2019 Analyzed: 4/18/2019				
Lead	41.4859	1.0	0.18	50.0000	83.0	80 - 120			
Duplicate (B9D0795-DUP1)					Source: 1901519-86 Prepared: 4/17/2019 Analyzed: 4/18/2019				
Lead	86.3738	1.0	0.18		85.3992		1.13	20	
Duplicate (B9D0795-DUP2)					Source: 1901525-10 Prepared: 4/17/2019 Analyzed: 4/18/2019				
Lead	18.7983	1.0	0.18		11.1499		51.1	20	R
Matrix Spike (B9D0795-MS1)					Source: 1901519-86 Prepared: 4/17/2019 Analyzed: 4/18/2019				
Lead	204.723	1.0	0.18	99.5025	85.3992	120	29 - 126		
Matrix Spike Dup (B9D0795-MSD1)					Source: 1901519-86 Prepared: 4/17/2019 Analyzed: 4/18/2019				
Lead	166.293	1.0	0.18	100.000	85.3992	80.9	29 - 126	20.7	20 R



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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 Limits	RPD	RPD Limit	Notes
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Batch B9D0829 - EPA 3010A_W

Blank (B9D0829-BLK1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead ND 0.0050 0.0047

LCS (B9D0829-BS1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 0.876097 0.0050 0.0047 1.00000 87.6 80 - 120

Duplicate (B9D0829-DUP1)

Source: 1901525-75

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead ND 0.0050 0.0047 ND NR 20

Matrix Spike (B9D0829-MS1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 2.32120 0.0050 0.0047 2.00000 ND 116 72 - 105 M1

Matrix Spike Dup (B9D0829-MSD1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 2.17559 0.0050 0.0047 2.00000 ND 109 72 - 105 6.48 20 M1



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Report To : Ross Surrency
Reported : 04/18/2019

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 B9D0745 - EPA 3050B MS_S

Blank (B9D0745-BLK1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	ND	0.25	0.01							
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LCS (B9D0745-BS1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	4.25062	0.25	0.01	5.00000		85.0	70 - 130			
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Duplicate (B9D0745-DUP1)

Source: 1901519-01

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	11.6532	1.0	0.04		12.6005			7.81	200	
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Matrix Spike (B9D0745-MS1)

Source: 1901519-01

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	14.2906	1.0	0.04	5.00000	12.6005	33.8	75 - 125			M1
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Matrix Spike Dup (B9D0745-MSD1)

Source: 1901519-01

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	14.9766	1.0	0.04	5.00000	12.6005	47.5	75 - 125	4.69	20	M1
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Report To : Ross Surrency

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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 B9D0745 - EPA 3050B MS_S

Post Spike (B9D0745-PS1)

Source: 1901519-01

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	10.8121		5.00000	6.30026	90.2	75 - 125			
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
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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 B9D0746 - EPA 3050B MS_S

Blank (B9D0746-BLK1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	0.013055	0.25	0.01							J
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LCS (B9D0746-BS1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	4.22640	0.25	0.01	5.00000	84.5	70 - 130				
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Duplicate (B9D0746-DUP1)

Source: 1901519-29

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	10.1537	1.0	0.04		10.4740		3.11	200		
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Matrix Spike (B9D0746-MS1)

Source: 1901519-29

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	22.0875	1.0	0.04	5.00000	10.4740	232	75 - 125			M1
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Matrix Spike Dup (B9D0746-MSD1)

Source: 1901519-29

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	22.8791	1.0	0.04	5.00000	10.4740	248	75 - 125	3.52	20	M1
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Report To : Ross Surrency

Reported : 04/18/2019

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 B9D0746 - EPA 3050B MS_S

Post Spike (B9D0746-PS1)

Source: 1901519-29

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	9.47916		5.00000	5.23701	84.8	75 - 125			
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Reported : 04/18/2019

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 B9D0747 - EPA 3050B MS_S

Blank (B9D0747-BLK1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	0.046710	0.25	0.01							J
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LCS (B9D0747-BS1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	4.21268	0.25	0.01	5.00000	84.3	70 - 130				
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Duplicate (B9D0747-DUP1)

Source: 1901519-60

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	68.0297	1.0	0.04		70.3735		3.39	200		
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Matrix Spike (B9D0747-MS1)

Source: 1901519-60

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	34.1959	1.0	0.04	5.00000	70.3735	-724	75 - 125			M1
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Matrix Spike Dup (B9D0747-MSD1)

Source: 1901519-60

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	32.8804	1.0	0.04	5.00000	70.3735	-750	75 - 125	3.92	20	M1
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Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

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 B9D0747 - EPA 3050B MS_S

Post Spike (B9D0747-PS1)

Source: 1901519-60

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	38.4184		5.00000	35.1868	64.6	75 - 125			
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Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

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 B9D0757 - EPA 3050B MS_S

Blank (B9D0757-BLK1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic ND 0.25 0.01

LCS (B9D0757-BS1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic 4.22321 0.25 0.01 5.00000 84.5 70 - 130

Duplicate (B9D0757-DUP1)

Source: 1901519-91

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic 11.3476 1.0 0.04 12.1048 6.46 200

Matrix Spike (B9D0757-MS1)

Source: 1901519-91

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic 15.2602 1.0 0.04 5.00000 12.1048 63.1 75 - 125 M1

Matrix Spike Dup (B9D0757-MSD1)

Source: 1901519-91

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic 15.1134 1.0 0.04 5.00000 12.1048 60.2 75 - 125 0.966 20 M1



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Irvine , CA 92614

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Report To : Ross Surrency

Reported : 04/18/2019

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 B9D0757 - EPA 3050B MS_S

Post Spike (B9D0757-PS1)

Source: 1901519-91

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	9.88152		5.00000	6.05240	76.6	75 - 125			
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Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/18/2019

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 Limits	RPD	RPD Limit	Notes
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Batch B9D0780 - EPA 3010A MS_W

Blank (B9D0780-BLK1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	ND	1.0	0.98	
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LCS (B9D0780-BS1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	9.96400	1.0	0.98	10.0000	99.6	85 - 115
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Duplicate (B9D0780-DUP1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	ND	1.0	0.98		ND		NR	20
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Matrix Spike (B9D0780-MS1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	9.82340	1.0	0.98	10.0000	ND	98.2	75 - 125
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Matrix Spike Dup (B9D0780-MSD1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	10.0313	1.0	0.98	10.0000	ND	100	75 - 125	2.09	20
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Post Spike (B9D0780-PS1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	5.22325			5.00000	0.04153	104	75 - 125
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Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine, CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/18/2019

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. 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.
D6	Sample required dilution due to high concentration of target analyte.
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.

CHAIN OF CUSTODY RECORD

Page 1 of 11

For Laboratory Use Only		ATLCOC Ver:20180321				
Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	1. CHILLED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>
<input type="checkbox"/> GSO		3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP, deg C:	3.6, 5.2
<input type="checkbox"/> Other: <u>DCS</u>		4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>		5.6, 1.6

Instruction: Complete all shaded areas.

CUSTOMER	Company: Leighton Consulting		Address: 17781 Cowan		Tel: 949-250-1421	
	City: Irvine		State: CA		Zip: 92614	
	Fax:		SEND REPORT TO:		SEND INVOICE TO:	
	Attn: Ross Surrency		Email: rsurrency@leightongroup.com		Attn: Accounts Payable	
	Email: acctpayable@leightongroup.com		same as SEND REPORT TO		EDD	
Company: Leighton Consulting		Company: Leighton Group		Excel		QA/QC
Address: 17781 Cowan		Address: 17781 Cowan		EDF		<input checked="" type="checkbox"/> Routine
City: Irvine		City: Irvine		Equis		<input type="checkbox"/> Caltrans
State: CA		State: CA				<input type="checkbox"/> Legal
Zip: 92614		Zip: 92614				<input type="checkbox"/> RWQCB
						<input type="checkbox"/> Level IV

PROJECT SAMPLES	Project Name: LAUSD - Jordan High School		Quote #: 11640.011	Special Instructions/Comments:		Requested Analysis										Sample Matrix				Container		Remarks							
	Project No.: 11640.011		PO #: 11640.011																										
	Sampler: SAG																												
	ITEM	Laboratory ID (For Lab Use Only)	Sample Description		Date	Time	8015 (GRO)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	Select Analysis	Select Analysis	Select Analysis	LEAD by 6010	ARSENIC by 6020	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix		Enter Custom Matrix	Turnaround Time (TAT)	Quantity	Type: 1=Tube, 2=VOA, 3=Liter, 4=Pin; 5=Liter, 6=Tray, 7=Canister	Material: 1=Glass, 2=Plastic, 3=Metal	Preservative: 1=HCl, 2=HNO3, 3=H2SO4, 4=HCl, 5=HNO3, 6=NaOH, 7=NA2S2O3	
	1	190519-01	JH-3IW-0.5	4-15-19	0746										XX			X							3	1	5	1	4
	2	-02	JH-3IW-1.5		0748										XX														
	3	-03	JH-3IW-3.0		0751											X													
	4	-04	JH-3IE-0.5		0750										XX														
	5	-05	JH-3IE-1.5		0753										XX														
	6	-06	JH-3IE-3.0		0755											X													
7	-07	JH-3IN-0.5		0756										XX															
8	-08	JH-3IN-1.5		0758										XX															
9	-09	JH-3IN-3.0		0800											X														
10	-10	SSI-69-0.5		0803										XX															

TERMS	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	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	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.
	regenerated/reformatted report; \$35 per reprocessed EDD.											

CUSTOMER	Relinquished by: (Signature and Printed Name)	Date: 4-15-19	Time: 1410	Received by: (Signature and Printed Name)	Date: 4-15-19	Time: 1408
	Relinquished by: (Signature and Printed Name)	Date: 4-15-19	Time: 1804	Received by: (Signature and Printed Name)	Date: 4-15-19	Time: 1845
	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.

Sabrina Gonzalez
Printed Name

Signature

CHAIN OF CUSTODY RECORD

Page 2 of 11

For Laboratory Use Only		ATLCOC Ver:20180321				
Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>
<input type="checkbox"/> GSO		3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP, deg C:	
<input type="checkbox"/> Other:		4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>		

Instruction: Complete all shaded areas.

CUSTOMER	Company: Leighton Consulting		Address: 17781 Cowan		Tel: 949-250-1421		
	City: Irvine		State: CA		Zip: 92614		
	Fax:		SEND REPORT TO:		SEND INVOICE TO:		
	Attn: Ross Surrency		Email: rsurrency@leightongroup.com		Attn: Accounts Payable		
	Company: Leighton Consulting		Address: 17781 Cowan		Email: acctpayable@leightongroup.com		
City: Irvine		State: CA		Zip: 92614		Company: Leighton Group	
City: Irvine		State: CA		Zip: 92614		Address: 17781 Cowan	
City: Irvine		State: CA		Zip: 92614		City: Irvine	
City: Irvine		State: CA		Zip: 92614		City: Irvine	
City: Irvine		State: CA		Zip: 92614		City: Irvine	

EDD	QA/QC
Excel	<input checked="" type="checkbox"/> Routine
EDF	<input type="checkbox"/> Caltrans
Equis	<input type="checkbox"/> Legal
	<input type="checkbox"/> RWQCB
	<input type="checkbox"/> Level IV
	<input type="checkbox"/>

PROJECT SAMPLES	Project Name: LAUSD - Jordan High School		Quote #: 11640.011		Special Instructions/Comments:	
	Project No.: 11640.011		PO #: 11640.011			
	Sampler: SAG					
	Requested Analysis		Sample Matrix		Container	
	8015 (GRO)		8015 (DRO)		8010 / 7000 (Title 22 Metals)	
	8081 (Organochlorine Pesticides)		8260 / 624 (Volatiles)		Select Analysis	
	Select Analysis		Select Analysis		Select Analysis	
	LEAD by 6010		ARSENIC by 6020		HOLD	
	Soil		Select Solid Matrix		Select Water Matrix	
	Select Wastewater Matrix		Select Non-aqueous Matrix		Enter Custom Matrix	
Turnaround Time (TAT)		Quantity		Type: 1=Tube, 2=VOA, 3=Liter, 4=Pin;		
Material: 1=Glass, 2=Plastic, 3=Metal		Preservative: 1=HCl, 2=HNO3, 3=H2SO4;		4=AC, 5=Zn(Ac), 6=NaOH, 7=NA2S2O3		
Remarks						
1		SS1-69-1.5		4-15-14 0805		
2		SS1-69-3.0		0807		
3		JH-19E-0.5		0820		
4		JH-19E-1.5		0823		
5		JH-19E-3.0		0825		
6		JH-19W-0.5		0821		
7		JH-19W-1.5		0824		
8		JH-19W-3.0		0827		
9		JH-19S-0.5		0830		
10		JH-19S-1.5		0832		

TERMS	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.				

CUSTOMER	Relinquished by: (Signature and Printed Name)		Date: 4-15-14		Time: 1410	
	Relinquished by: (Signature and Printed Name)		Date: 4/15/14		Time: 1845	
	Relinquished by: (Signature and Printed Name)		Date: 4/15/14		Time: 1845	
Received by: (Signature and Printed Name)		Date: 4/15/14		Time: 1845		
Received by: (Signature and Printed Name)		Date: 4/15/14		Time: 1845		
Received by: (Signature and Printed Name)		Date: 4/15/14		Time: 1845		

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Sabrina Gonzalez
Printed Name

Signature

For Laboratory Use Only										ATLCOC Ver:20180321									
Method of Transport				Sample Conditions Upon Receipt															
				Condition				Y	N	Condition				Y	N				
<input type="checkbox"/> Client <input type="checkbox"/> ATL <input type="checkbox"/> FedEx <input type="checkbox"/> OnTrac <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____				1. CHILLED				<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC				<input type="checkbox"/>	<input type="checkbox"/>				
				2. HEADSPACE (VOA)				<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED				<input type="checkbox"/>	<input type="checkbox"/>				
				3. CONTAINER INTACT				<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP, deg C:				<input type="checkbox"/>	<input type="checkbox"/>				
				4. SEALED				<input type="checkbox"/>	<input type="checkbox"/>										

Instruction: Complete all shaded areas.

CUSTOMER	Company: Leighton Consulting			Address: 17781 Cowan			Tel: 949-250-1421		
				City: Irvine		State: CA		Zip: 92614	
	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					
	Company: Leighton Consulting			Company: Leighton Group					
Address: 17781 Cowan			Address: 17781 Cowan						
City: Irvine State: CA Zip: 92614			City: Irvine State: CA Zip: 92614						
			EDD Excel EDF Equis _____ QA/QC <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RWQCE <input type="checkbox"/> Level IV <input type="checkbox"/> _____						

[illegible]

TERMS	<p>1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.</p> <p>2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.</p> <p>3. The following turnaround time conditions apply:</p> <p style="padding-left: 20px;">TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 9:00 AM</p> <p style="padding-left: 20px;">TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)</p> <p style="padding-left: 20px;">TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)</p> <p style="padding-left: 20px;">TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)</p> <p style="padding-left: 20px;">TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)</p> <p style="padding-left: 20px;">TAT = 5 : NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)</p> <p>4. Weekend, holiday, after-hours work --- ask for quote.</p> <p>5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective</p>	<p style="padding-left: 40px;">to the subcontract lab --- ask for quote.</p> <p>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.</p> <p>7. Electronic records maintained for five (5) years from report date.</p> <p>8. Hard copy reports will be disposed of after 45 calendar days from report date.</p> <p>9. Storage and Report Fees:</p> <ul style="list-style-type: none"> • 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 	<p style="padding-left: 40px;">regenerated/reformatted report; \$35 per reprocessed EDD.</p> <p>10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.</p> <p>11. Unanalyzed samples will incur a disposal fee of \$7 per sample.</p> <p>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.</p>
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CUSTODY	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	<i>Sabrina Gonzalez</i>	4-15-19	1410	<i>Asa Dean</i>	4/15/19	1408
	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
<i>A. G. Lee</i>	4/15	1845	<i>[Signature]</i>	4/15/19	1845	
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.

Sabrina Gonzalez

Printed Name

[Signature]

Signature

CHAIN OF CUSTODY RECORD

Page 9 of 11

4

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver:20180321					
Method of Transport	Sample Conditions Upon Receipt						
	Condition	Y	N	Condition	Y	N	
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> GSO		3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP, deg C:		
<input type="checkbox"/> Other:		4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>			

CUSTOMER	Company: Leighton Consulting		Address: 17781 Cowan		Tel: 949-250-1421				
	City: Irvine		State: CA		Zip: 92614				
	Fax:		SEND REPORT TO:		SEND INVOICE TO:				
	Attn: Ross Surrency		Email: rsurrency@leightongroup.com		Attn: Accounts Payable				
	Company: Leighton Consulting		Address: 17781 Cowan		Email: acctpayable@leightongroup.com				
City: Irvine		State: CA		Zip: 92614		EDD		QA/QC	
City: Irvine		State: CA		Zip: 92614		Excel		<input checked="" type="checkbox"/> Routine	
						EDF		<input type="checkbox"/> Caltrans	
						Equis		<input type="checkbox"/> Legal	
								<input type="checkbox"/> RWQCB	
								<input type="checkbox"/> Level IV	
								<input type="checkbox"/>	

PROJECT SAMPLES	Project Name: LAUSD - Jordan High School		Quote #: 11640.011		Special Instructions/Comments:		Requested Analysis										Sample Matrix				Container		Remarks							
	Project No.: 11640.011		PO #: 11640.011																											
	Sampler: SAG																													
	ITEM	Laboratory ID (For Lab Use Only)	Sample Description		Date	Time	8015 (GRO)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	Select Analysis	Select Analysis	Select Analysis	LEAD by 6010	ARSENIC by 6020	Hold	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix		Enter Custom Matrix	Turnaround Time (TAT)	Quantity	Type: 1=Tube; 2=VOA; 3=Uter; 4=Pin; 5=Jar; 6=Beaker; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=HCl; 5=H2O2; 6=NaOH; 7=NaOCl	
	1	1901519-31	JH-18E-1.5 DUP		4-15-19	0845													X							3	1	5	1	4
	2	-32	JH-18E-3.0			0847																								
	3	-33	JH-17W-0.5			0859																								
	4	-34	JH-17W-1.5			0901																								
	5	-35	JH-17W-3.0			0903																								
	6	-36	JH-17S-0.5			0905																								
7	-37	JH-17S-1.5			0906																									
8	-38	JH-17S-3.0			0908																									
9	-39	JH-17E-0.5			0910																									
10	-40	JH-17E-1.5			0912																									

TERMS	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.		regenerated/reformatted report; \$35 per reprocessed EDD.	
	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.		10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.	
3. The following turnaround time conditions apply:		7. Electronic records maintained for five (5) years from report date.		11. Unanalyzed samples will incur a disposal fee of \$7 per sample.		
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.		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.		
TAT = 1: 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)		9. Storage and Report Fees:				
TAT = 2: 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)		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.				
TAT = 3: 30% 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: 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)		Hard copy and regenerated reports/EDDs: \$17.50 per hard copy report requested; \$50.00 per				
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						

CUSTOMER	Relinquished by: (Signature and Printed Name)		Date: 4/15/19	Time: 1410	Received by: (Signature and Printed Name)		Date: 4/15/19	Time: 1408
	Relinquished by: (Signature and Printed Name)		Date: 4/15/19	Time: 1845	Received by: (Signature and Printed Name)		Date: 4/15/19	Time: 1845
	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.		Sabrina Gonzalez		Printed Name		Signature		

CHAIN OF CUSTODY RECORD

Page 5 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOG Ver:20180321								
Method of Transport	Sample Conditions Upon Receipt									
	Condition	Y	N	Condition	Y	N				
<input type="checkbox"/> Client	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC	<input type="checkbox"/>	<input type="checkbox"/>				
<input type="checkbox"/> FedEx		2. HEADSPACE (VOA)	<input type="checkbox"/>		<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/> GSO			3. CONTAINER INTACT		<input type="checkbox"/>		<input type="checkbox"/>	7. COOLER TEMP, deg C:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other:					4. SEALED		<input type="checkbox"/>		<input type="checkbox"/>	

CUSTOMER	Company: Leighton Consulting	Address: 17781 Cowan	Tel: 949-250-1421		
	City: Irvine	State: CA	Zip: 92614		
	Attn: Ross Surrency	Attn: Accounts Payable	Send Invoice TO: <input type="checkbox"/> same as SEND REPORT TO		
	Email: rsurrency@leightongroup.com	Email: acctpayable@leightongroup.com			
	Company: Leighton Consulting	Company: Leighton Group			
Address: 17781 Cowan	Address: 17781 Cowan				
City: Irvine	State: CA	Zip: 92614	City: Irvine	State: CA	Zip: 92614
			EDD	QA/QC	
			Excel	<input checked="" type="checkbox"/> Routine	
			EDF	<input type="checkbox"/> Caltrans	
			Equis	<input type="checkbox"/> Legal	
				<input type="checkbox"/> RWQCB	
				<input type="checkbox"/> Level IV	
				<input type="checkbox"/>	

PROJECT SAMPLES	Project Name: LAUSD - Jordan High School	Quote #: 11640.011	Special Instructions/Comments:	Requested Analysis										Sample Matrix				Container		Remarks						
	Project No.: 11640.011	PO #: 11640.011		8015 (GRO)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	Select Analysis	Select Analysis	Select Analysis	LEAD by 6010	ARSENIC by 6020	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix		Turnaround Time (TAT)	Quantity	Type: 1=Tube, 2=VOA, 3=Liter, 4=Pin; 5=Liter, 6=Canister, 7=Canister	Material: 1=Glass, 2=Plastic, 3=Metal	Preservative: 1=HCl, 2=HNO3, 3=H2SO4, 4=AC, 5=Zn(Ac), 6=NaOH, 7=NA2S2O3	
	Sampler: SAG																									
	ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time																					
	1	190189-41	JH-17E-3.0	4-15-19	0914									X												
	2	-42	JH-16W-0.5		0920									X	X											
	3	-43	JH-16W-0.5 DUP		0921									X	X											
	4	-44	JH-16W-1.5		0922									X	X											
	5	-45	JH-16W-3.0		0925									X												
	6	-46	JH-16W-5.0		0927									X												
7	-47	JH-16S-0.5		0930									X	X												
8	-48	JH-16S-1.5		0931									X	X												
9	-49	JH-16S-1.5 DUP		0932									X	X												
10	-50	JH-16S-3.0		0934									X													

TERMS	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.	regenerated/reformatted report; \$35 per reprocessed EDD.
	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.	10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
	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)	7. Electronic records maintained for five (5) years from report date.	11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
	4. Weekend, holiday, after-hours work --- ask for quote.	8. Hard copy reports will be disposed of after 45 calendar days from report date.	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.
	5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective	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	

CUSTOMER	Relinquished by: (Signature and Printed Name) Date: 4-15-19 Time: 1410	Received by: (Signature and Printed Name) Date: 4/15/19 Time: 1410	As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted. Sabrina Gonzalez Printed Name Signature
	Relinquished by: (Signature and Printed Name) Date: 4/15/19 Time: 1548	Received by: (Signature and Printed Name) Date: 4/15/19 Time: 1845	
	Relinquished by: (Signature and Printed Name)	Received by: (Signature and Printed Name)	

CHAIN OF CUSTODY RECORD

Page 6 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver:20180321				
Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>
<input type="checkbox"/> GSO		3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP, deg C:	
<input type="checkbox"/> Other:		4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>		

CUSTOMER	Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421	
	SEND REPORT TO:		Email: rsurrency@leightongroup.com		SEND INVOICE TO:		Email: acctpayable@leightongroup.com		same as SEND REPORT TO		Fax:	
	Attn: Ross Surrency		Company: Leighton Consulting		Attn: Accounts Payable		Company: Leighton Group		EDD		QA/QC	
	Address: 17781 Cowan		Address: 17781 Cowan		City: Irvine		City: Irvine		Excel		<input checked="" type="checkbox"/> Routine	
	City: Irvine		State: CA		Zip: 92614		State: CA		Zip: 92614		<input type="checkbox"/> Caltrans	

PROJECT SAMPLES	Project Name: LAUSD - Jordan High School		Quote #: 11640.011		Special Instructions/Comments:		Requested Analysis										Sample Matrix				Container				Remarks				
	Project No.: 11640.011		PO #: 11640.011																										
	Sampler: SAG																												
	ITEM	Laboratory ID (For Lab Use Only)	Sample Description		Date	Time	8015 (GRO)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	Select Analysis	Select Analysis	Select Analysis	LEAD by 6010	ARSENIC by 6020	Hold	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)		Quantity	Type: 1-Tube; 2-VOA; 3-Liver; 4-Pint; 5-Lar; 6-Tedlar; 7 - Canister	Material: 1-Glass; 2-Plastic; 3-Metal	Preservative: 1-HCl; 2-HNO3; 3-H2SO4; 4-HCl; 5-H2O/AQ2; 6-NaOH; 7-Na2S2O3
	1	1901519-51	JH-16S-5.0		4-15-19	0936											X		X					3		1	5	1	4
	2	-52	JH-16E-0.5			0935									XX														
	3	-53	JH-16E-1.5			0937									XX														
	4	-54	JH-16E-3.0			0939											X												
	5	-55	JH-16E-5.0			0942											X												
	6	-56	JH-8S-0.5			1006									XX														
7	-57	JH-8S-1.5			1009									XX															
8	-58	JH-8S-3.0			1011											X													
9	-59	JH-8E-0.5			0958									XX															
10	-60	JH-8E-1.5			1001									XX															

TERMS	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	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/SLC 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.
-------	--	---	--	--	--	--	---	---	--	---	---	---	--

CUSTOMER	Relinquished by: (Signature and Printed Name) Date: 4-15-19 Time: 1410	Received by: (Signature and Printed Name) Date: 4/15/19 Time: 1411	As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted. Sabrina Gonzalez Printed Name Signature
	Relinquished by: (Signature and Printed Name) Date: 4/15/19 Time: 1845	Received by: (Signature and Printed Name) Date: 4/15/19 Time: 1845	
	Relinquished by: (Signature and Printed Name) Date: Time:	Received by: (Signature and Printed Name) Date: Time:	

CHAIN OF CUSTODY RECORD

Page 9 of 11

Instruction: Complete all shaded areas.

Method of Transport		Sample Conditions Upon Receipt			
		Condition		Condition	
		Y	N	Y	N
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC <input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED <input type="checkbox"/>
<input type="checkbox"/> GSO		3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP, deg C: <input type="checkbox"/>
<input type="checkbox"/> Other:		4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>	

CUSTOMER	Company: Leighton Consulting		Address: 17781 Cowan		Tel: 949-250-1421	
	City: Irvine		State: CA		Zip: 92614	
	Fax:					
	SEND REPORT TO:		SEND INVOICE TO:		<input type="checkbox"/> same as SEND REPORT TO	
	Attn: Ross Surrency		Attn: Accounts Payable		Email: acctpayable@leightongroup.com	
Company: Leighton Consulting		Company: Leighton Group		EDD		QA/QC
Address: 17781 Cowan		Address: 17781 Cowan		Excel		<input checked="" type="checkbox"/> Routine
City: Irvine		City: Irvine		EDF		<input type="checkbox"/> Caltrans
State: CA		State: CA		Equis		<input type="checkbox"/> Legal
Zip: 92614		Zip: 92614				<input type="checkbox"/> RWQCB
						<input type="checkbox"/> Level IV

PROJECT SAMPLES	Project Name: LAUSD - Jordan High School		Quote #:	Special Instructions/Comments:		Requested Analysis										Sample Matrix				Container				Remarks			
	Project No.: 11640.011		PO #:			8015 (GRO)	8015 (DRO)	6010 / 7000 (Title 22 Metals)	8081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	Select Analysis	Select Analysis	Select Analysis	LEAD by 6010	ARSENIC by 6020	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Quantity		Type: 1=Tube; 2=VOA; 3=Liter; 4=Pin; 5=Jar; 6=Bed; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=AC; 5=Zn(Ac)2; 6=NaOH; 7=NA2S2O3
	Sampler: SAG		11640.011																								
	ITEM	Laboratory ID (For Lab Use Only)	Sample Description		Date	Time																					
	1	1901519-81	JH-6W-3.0		4-15-19	1110																					
	2	82	JH-6E-0.5			1101																					
	3	83	JH-6E-1.5			1103																					
	4	84	JH-6E-3.0			1105																					
	5	85	JH-6S-0.5			1056																					
	6	86	JH-6S-1.5			1059																					
7	87	JH-6S-3.0			1100																						
8	88	JH-6N-1.5			1053																						
9	89	JH-6N-1.5			1056																						
10	90	JH-6N-3.0			1058																						

TERMS	1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.	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.	10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
	2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.	7. Electronic records maintained for five (5) years from report date.	11. Unanalyzed samples will incur a disposal fee of \$7 per sample.
ADDITIONAL	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)	8. Hard copy reports will be disposed of after 45 calendar days from report date.	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.
	4. Weekend, holiday, after-hours work --- ask for quote.	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.	
	5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.	Hard copy and regenerated reports/EDDs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD.	

Relinquished by: (Signature and Printed Name)	Date: 4/15/19	Time: 1110	Received by: (Signature and Printed Name)	Date: 4/15/19	Time: 1108
Relinquished by: (Signature and Printed Name)	Date: 4/15/19	Time: 1045	Received by: (Signature and Printed Name)	Date: 4/15/19	Time: 1045
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.

Sabrina Gonzalez
Printed Name

Signature

Discount Courier Services, Inc.

Tracking number: **940329043**
Order received: 4/15/2019 8:21 AM (Pacific Daylight Time)
Origin: Los Angeles, CA, US

Current status: **Completed**

History:

Date	Time	Status	Activity
4/15/2019	2:12 PM	In Transit	
4/15/2019	6:49 PM	Completed	

* Times shown are (UTC-08:00) Pacific Time (US & Canada)

Destination: Signal Hill, CA

Actual collection time: 4/15/2019 2:12 PM

Delivered to: Joel

Actual delivery time: 4/15/2019 6:49 PM



April 24, 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 : 1901519
Client Reference : LAUSD - Jordan High School, 11640.011

Enclosed are the results for sample(s) received on April 15, 2019 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 "E Rodriguez", written in a cursive style.

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 - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JH-31E-3.0	1901519-06	Soil	4/15/19 7:55	4/15/19 14:08
SS1-69-3.0	1901519-12	Soil	4/15/19 8:07	4/15/19 14:08
JH-19W-3.0	1901519-18	Soil	4/15/19 8:27	4/15/19 14:08
JH-18W-3.0	1901519-28	Soil	4/15/19 8:48	4/15/19 14:08
JH-18E-3.0	1901519-32	Soil	4/15/19 8:47	4/15/19 14:08
JH-17W-3.0	1901519-35	Soil	4/15/19 9:03	4/15/19 14:08
JH-16W-3.0	1901519-45	Soil	4/15/19 9:25	4/15/19 14:08
JH-16E-3.0	1901519-54	Soil	4/15/19 9:39	4/15/19 14:08
JH-8S-3.0	1901519-58	Soil	4/15/19 10:11	4/15/19 14:08
JH-8E-3.0	1901519-61	Soil	4/15/19 10:04	4/15/19 14:08
JH-8N-3.0	1901519-64	Soil	4/15/19 10:05	4/15/19 14:08
JH-8W-3.0	1901519-68	Soil	4/15/19 10:16	4/15/19 14:08
SS1-64-3.0	1901519-76	Soil	4/15/19 10:33	4/15/19 14:08
JH-6W-3.0	1901519-81	Soil	4/15/19 11:10	4/15/19 14:08
JH-6E-3.0	1901519-84	Soil	4/15/19 11:05	4/15/19 14:08
JH-6S-3.0	1901519-87	Soil	4/15/19 11:00	4/15/19 14:08
JH-6N-3.0	1901519-90	Soil	4/15/19 10:58	4/15/19 14:08



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/24/2019

DETECTION SUMMARY

Client Sample ID JH-31E-3.0

Lab ID: 1901519-06

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	6.0	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 11:56	D1

Client Sample ID SS1-69-3.0

Lab ID: 1901519-12

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	2.5	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:57	D1

Client Sample ID JH-19W-3.0

Lab ID: 1901519-18

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	5.9	1.0	0.18	1	B9D1034	04/23/2019	04/24/19 12:24	

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	4.3	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 11:59	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/24/2019

DETECTION SUMMARY

Client Sample ID JH-18W-3.0

Lab ID: 1901519-28

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	B9D1034	04/23/2019	04/24/19 12:25	

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	B9D0985	04/22/2019	04/24/19 12:00	D1

Client Sample ID JH-18E-3.0

Lab ID: 1901519-32

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	42	1.0	0.18	1	B9D1034	04/23/2019	04/24/19 12:26	

Client Sample ID JH-17W-3.0

Lab ID: 1901519-35

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	B9D1034	04/23/2019	04/24/19 12:30	

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	9.7	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:01	D1



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17781 Cowan Street

Irvine, CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

DETECTION SUMMARY

Client Sample ID JH-16W-3.0

Lab ID: 1901519-45

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	4.8	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:02	D1

Client Sample ID JH-16E-3.0

Lab ID: 1901519-54

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	150	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:04	D6

Client Sample ID JH-8S-3.0

Lab ID: 1901519-58

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	3.1	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:05	D1

Client Sample ID JH-8E-3.0

Lab ID: 1901519-61

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	B9D0985	04/22/2019	04/24/19 12:06	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/24/2019

DETECTION SUMMARY

Client Sample ID JH-8N-3.0

Lab ID: 1901519-64

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	20	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:07	D1

Client Sample ID JH-8W-3.0

Lab ID: 1901519-68

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	B9D0985	04/22/2019	04/24/19 12:08	D1

Client Sample ID SS1-64-3.0

Lab ID: 1901519-76

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	8.6	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:09	D1

Client Sample ID JH-6W-3.0

Lab ID: 1901519-81

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	B9D0985	04/22/2019	04/24/19 12:09	D1



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17781 Cowan Street
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 04/24/2019

DETECTION SUMMARY

Client Sample ID JH-6E-3.0

Lab ID: 1901519-84

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	100	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:10	D6

Client Sample ID JH-6S-3.0

Lab ID: 1901519-87

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	B9D1034	04/23/2019	04/24/19 12:31	

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	26	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:11	D1

Client Sample ID JH-6N-3.0

Lab ID: 1901519-90

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	53	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:12	D1



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-31E-3.0

Lab ID: 1901519-06

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	6.0	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 11:56	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID SS1-69-3.0

Lab ID: 1901519-12

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	2.5	1.0	0.04	20	B9D0745	04/16/2019	04/17/19 17:57	D1



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17781 Cowan Street
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/24/2019

Client Sample ID JH-19W-3.0

Lab ID: 1901519-18

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	5.9	1.0	0.18	1	B9D1034	04/23/2019	04/24/19 12:24	

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	4.3	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 11:59	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-18W-3.0

Lab ID: 1901519-28

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	B9D1034	04/23/2019	04/24/19 12:25	

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	B9D0985	04/22/2019	04/24/19 12:00	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-18E-3.0

Lab ID: 1901519-32

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	42	1.0	0.18	1	B9D1034	04/23/2019	04/24/19 12:26	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-17W-3.0

Lab ID: 1901519-35

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	B9D1034	04/23/2019	04/24/19 12:30	

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	9.7	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:01	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-16W-3.0

Lab ID: 1901519-45

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	4.8	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:02	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-16E-3.0

Lab ID: 1901519-54

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	150	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:04	D6



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-8S-3.0

Lab ID: 1901519-58

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	3.1	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:05	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-8E-3.0

Lab ID: 1901519-61

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	B9D0985	04/22/2019	04/24/19 12:06	D1



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-8N-3.0

Lab ID: 1901519-64

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	20	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:07	D1



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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-8W-3.0

Lab ID: 1901519-68

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	B9D0985	04/22/2019	04/24/19 12:08	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID SS1-64-3.0

Lab ID: 1901519-76

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	8.6	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:09	D1



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-6W-3.0

Lab ID: 1901519-81

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	B9D0985	04/22/2019	04/24/19 12:09	D1



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-6E-3.0

Lab ID: 1901519-84

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	100	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:10	D6



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-6S-3.0

Lab ID: 1901519-87

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	B9D1034	04/23/2019	04/24/19 12:31	

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	26	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:11	D1



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Client Sample ID JH-6N-3.0

Lab ID: 1901519-90

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	53	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:12	D1



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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/24/2019

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 Limits	RPD	RPD Limit	Notes
Batch B9D1034 - EPA 3050B_S										
Blank (B9D1034-BLK1)					Prepared: 4/23/2019 Analyzed: 4/24/2019					
Lead	ND	1.0	0.18							
LCS (B9D1034-BS1)					Prepared: 4/23/2019 Analyzed: 4/24/2019					
Lead	44.8973	1.0	0.18	50.0000		89.8	80 - 120			
Duplicate (B9D1034-DUP1)					Source: 1901519-87 Prepared: 4/23/2019 Analyzed: 4/24/2019					
Lead	4.16370	1.0	0.18		3.63097			13.7	20	
Matrix Spike (B9D1034-MS1)					Source: 1901519-87 Prepared: 4/23/2019 Analyzed: 4/24/2019					
Lead	85.5366	1.0	0.18	125.000	3.63097	65.5	29 - 126			
Matrix Spike Dup (B9D1034-MSD1)					Source: 1901519-87 Prepared: 4/23/2019 Analyzed: 4/24/2019					
Lead	81.1471	1.0	0.18	125.000	3.63097	62.0	29 - 126	5.27	20	



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/24/2019

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 B9D0745 - EPA 3050B MS_S

Blank (B9D0745-BLK1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	ND	0.25	0.01							
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LCS (B9D0745-BS1)

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	4.25062	0.25	0.01	5.00000		85.0	70 - 130			
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Duplicate (B9D0745-DUP1)

Source: 1901519-01

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	11.6532	1.0	0.04		12.6005			7.81	200	
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Matrix Spike (B9D0745-MS1)

Source: 1901519-01

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	14.2906	1.0	0.04	5.00000	12.6005	33.8	75 - 125			M1
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Matrix Spike Dup (B9D0745-MSD1)

Source: 1901519-01

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	14.9766	1.0	0.04	5.00000	12.6005	47.5	75 - 125	4.69	20	M1
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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

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 B9D0745 - EPA 3050B MS_S

Post Spike (B9D0745-PS1)

Source: 1901519-01

Prepared: 4/16/2019 Analyzed: 4/17/2019

Arsenic	10.8121		5.00000	6.30026	90.2	75 - 125			
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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 04/24/2019

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 B9D0985 - EPA 3050B MS_S

Blank (B9D0985-BLK1)

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	ND	0.25	0.01
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LCS (B9D0985-BS1)

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	4.42792	0.25	0.01	5.00000	88.6	70 - 130
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Matrix Spike (B9D0985-MS1)

Source: 1901519-06

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	10.6482	1.0	0.04	5.00000	5.97022	93.6	75 - 125
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Matrix Spike Dup (B9D0985-MSD1)

Source: 1901519-06

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	11.1566	1.0	0.04	5.00000	5.97022	104	75 - 125	4.66	20
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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

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 B9D0985 - EPA 3050B MS_S

Post Spike (B9D0985-PS1)

Source: 1901519-06

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	7.70895		5.00000	2.98511	94.5	75 - 125			
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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 04/24/2019

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
D6	Sample required dilution due to high concentration of target analyte.
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.

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Monday, April 22, 2019 12:37 PM
To: Carmen Aguila
Cc: customer.relations@atlglobal.com
Subject: FW: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Carmen,

Please analyze these samples on a 3-day TAT if possible.

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell

Environmental | Geotechnical | Materials Testing

SOLUTIONS YOU CAN BUILD ON

From: Robert Lovdahl
Sent: Friday, April 19, 2019 4:27 PM
To: Carmen Aguila
Cc: customer.relations@atlglobal.com; Ross Surrency
Subject: RE: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Carmen,

We would like to analyze the following samples that have been placed on hold for the LAUSD Jordan High School project.

1. JH-6E-3.0 analyze for **As by 6020**
2. JH-6N-3.0 analyze for **As by 6020**
3. JH-6S-3.0 analyze for **As by 6020** and Pb by 6010
4. JH-6W-3.0 analyze for **As by 6020**
5. JH-8E-3.0 analyze for **As by 6020**
6. JH-8N-3.0 analyze for **As by 6020**
7. JH-8S-3.0 analyze for **As by 6020**
8. JH-8W-3.0 analyze for **As by 6020**
9. JH-16E-3.0 analyze for **As by 6020**
10. JH-16W-3.0 analyze for **As by 6020**
11. JH-17W-3.0 analyze for **As by 6020** and Pb by 6010
12. JH-18E-3.0 analyze for Pb by 6010
13. JH-18W-3.0 analyze for **As by 6020** and Pb by 6010
14. JH-19W-3.0 analyze for **As by 6020** and Pb by 6010

15. JH-31E-3.0 analyze for **As by 6020**
16. SSI-64-3.0 analyze for **As by 6020**
17. SSI-69-3.0 analyze for **As by 6020**

Analysis on standard TAT. Please let me know if you have any questions.

Thanks,

Robert Lovdahl, PG

Project Geologist
17781 Cowan
Irvine, CA 92614
Cell – (949) 307-0527
Office – (949) 681-4282

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----- Original message -----

From: Carmen Aguila <Carmen.Aguila@atlglobal.com>
Date: 4/18/19 7:53 PM (GMT-05:00)
To: Ross Surrency <rsurrency@leightongroup.com>
Cc: customer.relations@atlglobal.com
Subject: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Good afternoon Ross,

Please find your complete results for the above project attached. If I can further assist, please let me know.

Thank you,



Carmen Aguila | Sample Control/Field Services Manager
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext 245 | F: 562.989-6348 | M: 562.715.8770
<http://www.atlglobal.com>

Laboratory Excellence Defined

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*
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May 08, 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 : 1901519
Client Reference : LAUSD - Jordan High School, 11640.011

Enclosed are the results for sample(s) received on April, 15 2019 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.

This is an amended report. Please disregard all previous documentation that corresponds to the page(s) enclosed.

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.

A handwritten signature in black ink, appearing to be 'Gm'.

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.



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Leighton Consulting, Inc.

17781 Cowan Street

Irvine, CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JH-19W-1.5	1901519-17	Soil	4/15/19 8:24	4/15/19 14:08
JH-18S-0.5	1901519-22	Soil	4/15/19 8:51	4/15/19 14:08
JH-18W-1.5	1901519-27	Soil	4/15/19 8:46	4/15/19 14:08
JH-18E-0.5	1901519-29	Soil	4/15/19 8:42	4/15/19 14:08
JH-18E-1.5	1901519-30	Soil	4/15/19 8:44	4/15/19 14:08
JH-17W-0.5	1901519-33	Soil	4/15/19 8:59	4/15/19 14:08
JH-17W-1.5	1901519-34	Soil	4/15/19 9:01	4/15/19 14:08
JH-16E-5.0	1901519-55	Soil	4/15/19 9:42	4/15/19 14:08
JH-8E-1.5	1901519-60	Soil	4/15/19 10:01	4/15/19 14:08
JH-8N-1.5	1901519-63	Soil	4/15/19 10:02	4/15/19 14:08
JH-6W-1.5	1901519-79	Soil	4/15/19 11:08	4/15/19 14:08
JH-6W-1.5DUP	1901519-80	Soil	4/15/19 11:09	4/15/19 14:08
JH-6E-1.5	1901519-83	Soil	4/15/19 11:03	4/15/19 14:08
JH-6S-1.5	1901519-86	Soil	4/15/19 10:59	4/15/19 14:08
JH-6N-1.5	1901519-89	Soil	4/15/19 10:56	4/15/19 14:08

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.



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-19W-1.5

Lab ID: 1901519-17

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	12	1.0	0.094	20	B9D1206	04/29/19 09:51	04/29/19 14:56	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-18S-0.5

Lab ID: 1901519-22

STLC Metals by ICP-AES by EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	6.5	1.0	0.094	20	B9E0146	05/03/19 14:20	05/04/19 16:54	D1



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Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-18W-1.5

Lab ID: 1901519-27

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	12	1.0	0.094	20	B9D1206	04/29/19 09:51	04/29/19 15:02	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-18E-0.5

Lab ID: 1901519-29

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	4.5	1.0	0.094	20	B9D1206	04/29/19 09:51	04/29/19 15:06	D1



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Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-18E-1.5

Lab ID: 1901519-30

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	22	1.0	0.094	20	B9D1206	04/29/19 09:51	04/29/19 15:07	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-17W-0.5

Lab ID: 1901519-33

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.0	1.0	0.094	20	B9D1206	04/29/19 09:51	04/29/19 15:08	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-17W-1.5

Lab ID: 1901519-34

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	18	1.0	0.094	20	B9D1206	04/29/19 09:51	04/29/19 17:19	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-16E-5.0

Lab ID: 1901519-55

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	36	1.0	0.04	20	B9D1231	04/29/19 08:00	04/29/19 15:42	D1



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Project Number : LAUSD - Jordan High School, 11640.011

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Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-8E-1.5

Lab ID: 1901519-60

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.7	1.0	0.16	20	B9D1206	04/29/19 09:51	04/29/19 15:12	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-8N-1.5

Lab ID: 1901519-63

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.3	1.0	0.16	20	B9D1206	04/29/19 09:51	04/29/19 15:13	



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Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-6W-1.5

Lab ID: 1901519-79

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.4	1.0	0.16	20	B9D1206	04/29/19 09:51	04/29/19 15:15	



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Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-6W-1.5DUP

Lab ID: 1901519-80

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.7	1.0	0.16	20	B9D1206	04/29/19 09:51	04/29/19 15:16	



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Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-6E-1.5

Lab ID: 1901519-83

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	32	1.0	0.16	20	B9D1206	04/29/19 09:51	04/29/19 15:18	



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DETECTION SUMMARY

Client Sample ID JH-6S-1.5

Lab ID: 1901519-86

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	23	1.0	0.16	20	B9D1206	04/29/19 09:51	04/29/19 15:22	
Lead	5.8	1.0	0.094	20	B9D1206	04/29/19 09:51	04/29/19 15:22	D1



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Report To : Ross Surrency

Reported : 05/08/2019

DETECTION SUMMARY

Client Sample ID JH-6N-1.5

Lab ID: 1901519-89

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	51	1.0	0.16	20	B9D1206	04/29/19 09:51	04/29/19 15:23	



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Reported : 05/08/2019

Client Sample ID JH-19W-1.5

Lab ID: 1901519-17

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	12	1.0	0.094	20	B9D1206	04/29/2019	04/29/19 14:56	D1



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Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-18S-0.5

Lab ID: 1901519-22

STLC Metals by ICP-AES by EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	6.5	1.0	0.094	20	B9E0146	05/03/2019	05/04/19 16:54	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-18W-1.5

Lab ID: 1901519-27

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	12	1.0	0.094	20	B9D1206	04/29/2019	04/29/19 15:02	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-18E-0.5

Lab ID: 1901519-29

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	4.5	1.0	0.094	20	B9D1206	04/29/2019	04/29/19 15:06	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-18E-1.5

Lab ID: 1901519-30

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	22	1.0	0.094	20	B9D1206	04/29/2019	04/29/19 15:07	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-17W-0.5

Lab ID: 1901519-33

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	2.0	1.0	0.094	20	B9D1206	04/29/2019	04/29/19 15:08	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-17W-1.5

Lab ID: 1901519-34

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	18	1.0	0.094	20	B9D1206	04/29/2019	04/29/19 17:19	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-16E-5.0

Lab ID: 1901519-55

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	36	1.0	0.04	20	B9D1231	04/29/2019	04/29/19 15:42	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-8E-1.5

Lab ID: 1901519-60

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.7	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:12	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-8N-1.5

Lab ID: 1901519-63

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.3	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:13	



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-6W-1.5

Lab ID: 1901519-79

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.4	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:15	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-6W-1.5DUP

Lab ID: 1901519-80

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.7	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:16	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-6E-1.5

Lab ID: 1901519-83

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	32	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:18	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-6S-1.5

Lab ID: 1901519-86

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	23	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:22	
Lead	5.8	1.0	0.094	20	B9D1206	04/29/2019	04/29/19 15:22	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Client Sample ID JH-6N-1.5

Lab ID: 1901519-89

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	51	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:23	



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/08/2019

QUALITY CONTROL SECTION

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
Batch B9D1231 - EPA 3050B MS_S										
Blank (B9D1231-BLK1)					Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	0.05039	0.25	0.01							J
LCS (B9D1231-BS1)					Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	4.31844	0.25	0.01	5.00000		86.4	70 - 130			
Duplicate (B9D1231-DUP1)					Source: 1901519-55 Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	35.7602	1.0	0.04		36.0293			0.750	200	
Matrix Spike (B9D1231-MS1)					Source: 1901519-55 Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	40.3101	1.0	0.04	5.00000	36.0293	85.6	75 - 125			
Matrix Spike Dup (B9D1231-MSD1)					Source: 1901519-55 Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	38.0015	1.0	0.04	5.00000	36.0293	39.4	75 - 125	5.90	20	M1



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Reported : 05/08/2019

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 B9D1231 - EPA 3050B MS_S

Post Spike (B9D1231-PS1)

Source: 1901519-55

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	22.3869		5.00000	18.0146	87.4	75 - 125			
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Report To : Ross Surrency
Reported : 05/08/2019

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 Limits	RPD	RPD Limit	Notes
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Batch B9D1206 - STLC_S Extraction

Blank (B9D1206-BLK1)

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	ND	1.0	0.16
Lead	ND	1.0	0.094

Blank (B9D1206-BLK2)

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	ND	1.0	0.16
Lead	ND	1.0	0.094

LCS (B9D1206-BS1)

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	2.04050		2.00000	102	80 - 120
Lead	1.91697		2.00000	95.8	80 - 120

Duplicate (B9D1206-DUP1)

Source: 1901519-17

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	0.557380	1.0	0.16	0.440775	23.4	20	J, R
Lead	14.2908	1.0	0.094	11.8259	18.9	20	

Duplicate (B9D1206-DUP2)

Source: 1901525-72

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	5.03201	1.0	0.16	5.29910	5.17	20	
Lead	1.14648	1.0	0.094	1.19621	4.25	20	

Matrix Spike (B9D1206-MS1)

Source: 1901519-17

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	3.48146		2.50000	0.440775	122	70 - 130	
Lead	16.7213		2.50000	11.8259	196	70 - 130	M1

Matrix Spike (B9D1206-MS2)

Source: 1901525-72

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	8.44264		2.50000	5.29910	126	70 - 130	
Lead	3.85050		2.50000	1.19621	106	70 - 130	

Matrix Spike Dup (B9D1206-MSD1)

Source: 1901519-17

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	2.71927		2.50000	0.440775	91.1	70 - 130	24.6	20	R
Lead	12.9420		2.50000	11.8259	44.6	70 - 130	25.5	20	R



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Report To : Ross Surrency
Reported : 05/08/2019

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 Limits	RPD	RPD Limit	Notes
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Batch B9E0146 - STLC_S Extraction

Blank (B9E0146-BLK1)

Prepared: 5/3/2019 Analyzed: 5/4/2019

Arsenic	ND	1.0	0.16
Lead	ND	1.0	0.094

LCS (B9E0146-BS1)

Prepared: 5/3/2019 Analyzed: 5/4/2019

Arsenic	1.85862		2.00000	92.9	80 - 120
Lead	1.81469		2.00000	90.7	80 - 120

Duplicate (B9E0146-DUP1)

Source: 1901519-22

Prepared: 5/3/2019 Analyzed: 5/4/2019

Arsenic	0.217514	1.0	0.16	0.230677	5.87	20	J
Lead	6.54974	1.0	0.094	6.53952	0.156	20	

Matrix Spike (B9E0146-MS1)

Source: 1901519-22

Prepared: 5/3/2019 Analyzed: 5/4/2019

Arsenic	2.31982		2.00000	0.230677	104	70 - 130
Lead	8.24946		2.00000	6.53952	85.5	70 - 130

Matrix Spike Dup (B9E0146-MSD1)

Source: 1901519-22

Prepared: 5/3/2019 Analyzed: 5/4/2019

Arsenic	2.22018		2.00000	0.230677	99.5	70 - 130	4.39	20
Lead	8.02392		2.00000	6.53952	74.2	70 - 130	2.77	20



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/08/2019

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. 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.
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.

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Thursday, April 25, 2019 8:22 AM
To: Carmen Aguila; Robert Lovdahl
Cc: customer.relations@atlglobal.com
Subject: RE: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Carmen,

Please analyze the following sample for arsenic by 6020 on a 3-day TAT:

JH-16E-5.0

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614

(949) 681-4264 – Direct

(949) 880-4439 – Cell

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From: Carmen Aguila [mailto:Carmen.Aguila@atlglobal.com]
Sent: Wednesday, April 24, 2019 4:41 PM
To: Ross Surrency; Lovdahl@leightongroup.com
Cc: customer.relations@atlglobal.com
Subject: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Good afternoon Ross/Robert,

Please find your results for the above project attached. If I can further assist, please let me know.

Thank you,



Carmen Aguila | Sample Control/Field Services Manager
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext 245 | F: 562.989-6348 | M: 562.715.8770
<http://www.atlglobal.com>

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Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Wednesday, April 24, 2019 10:25 AM
To: Carmen Aguila
Cc: Robert Lovdahl
Subject: Jordan HS

Follow Up Flag: Follow up
Flag Status: Completed

Carmen,

There were 9 samples in the Jordan HS data set (April 15 and 16) that were >50 mg/kg for arsenic. Please analyze these 9 samples for STLC.

I am deciding which >50 lead results to run for STLC and will let you know.

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614

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(949) 880-4439 – Cell

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Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Wednesday, April 24, 2019 12:59 PM
To: Carmen Aguila
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: RE: Jordan HS

Follow Up Flag: Follow up
Flag Status: Flagged

Carmen,

Please analyze the following samples in WO 190519 for STLC lead on a standard TAT:

JH-6S-1.5
JH-17W-0.5
JH-17W-1.5
JH-18E-0.5
JH-18E-1.5
JH-18S-0.5
JH-18W-1.5
JH-19W-1.5

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614
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(949) 880-4439 – Cell

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From: Carmen Aguila [mailto:Carmen.Aguila@atlglobal.com]
Sent: Wednesday, April 24, 2019 11:57 AM
To: Ross Surrency
Cc: Robert Lovdahl; customer.relations@atlglobal.com
Subject: RE: Jordan HS

Good morning Ross,

I received your request and we'll schedule the analysis. Do you need these on rush TAT or standard TAT?



May 10, 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 : 1901519

Client Reference : LAUSD - Jordan High School, 11640.011

Enclosed are the results for sample(s) received on April 15, 2019 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 "Edgar Caballero", with a small "Ar" written below the main signature.

Edgar Caballero
President & 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.

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JH-19W-1.5	1901519-17	Soil	4/15/19 8:24	4/15/19 14:08
JH-18W-1.5	1901519-27	Soil	4/15/19 8:46	4/15/19 14:08
JH-18E-1.5	1901519-30	Soil	4/15/19 8:44	4/15/19 14:08
JH-17W-1.5	1901519-34	Soil	4/15/19 9:01	4/15/19 14:08
JH-6W-1.5	1901519-79	Soil	4/15/19 11:08	4/15/19 14:08
JH-6E-1.5	1901519-83	Soil	4/15/19 11:03	4/15/19 14:08
JH-6S-1.5	1901519-86	Soil	4/15/19 10:59	4/15/19 14:08
JH-6N-1.5	1901519-89	Soil	4/15/19 10:56	4/15/19 14:08

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.



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

DETECTION SUMMARY

Client Sample ID JH-19W-1.5

Lab ID: 1901519-17

TCLP 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	0.034	0.25	0.024	5	B9E0305	05/08/2019	05/09/19 10:59	D1, J

Client Sample ID JH-18E-1.5

Lab ID: 1901519-30

TCLP 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	0.024	0.25	0.024	5	B9E0305	05/08/2019	05/09/19 11:06	D1, J

Client Sample ID JH-17W-1.5

Lab ID: 1901519-34

TCLP 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	0.17	0.25	0.024	5	B9E0305	05/08/2019	05/09/19 11:07	D1, J

Client Sample ID JH-6W-1.5

Lab ID: 1901519-79

TCLP 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
Arsenic	0.89	0.25	0.039	5	B9E0305	05/08/2019	05/09/19 11:08	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

DETECTION SUMMARY

Client Sample ID JH-6E-1.5

Lab ID: 1901519-83

TCLP 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
Arsenic	3.1	0.25	0.039	5	B9E0305	05/08/2019	05/09/19 11:15	D1

Client Sample ID JH-6S-1.5

Lab ID: 1901519-86

TCLP 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
Arsenic	3.5	0.25	0.039	5	B9E0305	05/08/2019	05/09/19 11:16	D1

Client Sample ID JH-6N-1.5

Lab ID: 1901519-89

TCLP 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
Arsenic	4.1	0.25	0.039	5	B9E0305	05/08/2019	05/09/19 12:12	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

Client Sample ID JH-19W-1.5

Lab ID: 1901519-17

TCLP 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	0.034	0.25	0.024	5	B9E0305	05/08/2019	05/09/19 10:59	D1, J



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Report To : Ross Surrency

Reported : 05/10/2019

Client Sample ID JH-18W-1.5

Lab ID: 1901519-27

TCLP 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	0.25	0.024	5	B9E0305	05/08/2019	05/09/19 11:04	D1



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Report To : Ross Surrency

Reported : 05/10/2019

Client Sample ID JH-18E-1.5

Lab ID: 1901519-30

TCLP 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	0.024	0.25	0.024	5	B9E0305	05/08/2019	05/09/19 11:06	D1, J



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

Client Sample ID JH-17W-1.5

Lab ID: 1901519-34

TCLP 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	0.17	0.25	0.024	5	B9E0305	05/08/2019	05/09/19 11:07	D1, J



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

Client Sample ID JH-6W-1.5

Lab ID: 1901519-79

TCLP 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
Arsenic	0.89	0.25	0.039	5	B9E0305	05/08/2019	05/09/19 11:08	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

Client Sample ID JH-6E-1.5

Lab ID: 1901519-83

TCLP 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
Arsenic	3.1	0.25	0.039	5	B9E0305	05/08/2019	05/09/19 11:15	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

Client Sample ID JH-6S-1.5

Lab ID: 1901519-86

TCLP 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
Arsenic	3.5	0.25	0.039	5	B9E0305	05/08/2019	05/09/19 11:16	D1
Lead	ND	0.25	0.024	5	B9E0305	05/08/2019	05/09/19 11:16	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

Client Sample ID JH-6N-1.5

Lab ID: 1901519-89

TCLP 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
Arsenic	4.1	0.25	0.039	5	B9E0305	05/08/2019	05/09/19 12:12	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

QUALITY CONTROL SECTION

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

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9E0305 - EPA 3010A_S										
Blank (B9E0305-BLK1)					Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	ND	0.050	0.0078							
Lead	0.005135	0.050	0.0047							J
Blank (B9E0305-BLK2)					Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	ND	0.050	0.0078							
Lead	ND	0.050	0.0047							
LCS (B9E0305-BS1)					Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	1.00483	0.050	0.0078	1.00000		100	80 - 120			
Lead	1.00240	0.050	0.0047	1.00000		100	80 - 120			
Duplicate (B9E0305-DUP1)					Source: 1901519-17		Prepared: 5/8/2019 Analyzed: 5/9/2019			
Arsenic	0.105054	0.25	0.039		ND			NR	20	J
Lead	ND	0.25	0.024		0.033832			NR	20	
Duplicate (B9E0305-DUP2)					Source: 1901525-72		Prepared: 5/8/2019 Analyzed: 5/9/2019			
Arsenic	1.19609	0.25	0.039		1.35366			12.4	20	
Lead	ND	0.25	0.024		ND			NR	20	
Duplicate (B9E0305-DUP3)					Source: 1901662-35		Prepared: 5/8/2019 Analyzed: 5/9/2019			
Arsenic	ND	0.25	0.039		0.043715			NR	20	
Lead	0.043890	0.25	0.024		ND			NR	20	J
Matrix Spike (B9E0305-MS1)					Source: 1901519-17		Prepared: 5/8/2019 Analyzed: 5/9/2019			
Arsenic	3.14392	0.25	0.039	2.50000	ND	126	63 - 131			
Lead	3.03358	0.25	0.024	2.50000	0.033832	120	59 - 123			
Matrix Spike (B9E0305-MS2)					Source: 1901525-72		Prepared: 5/8/2019 Analyzed: 5/9/2019			
Arsenic	3.52083	0.25	0.039	2.50000	1.35366	86.7	63 - 131			
Lead	2.36706	0.25	0.024	2.50000	ND	94.7	59 - 123			
Matrix Spike (B9E0305-MS3)					Source: 1901662-35		Prepared: 5/8/2019 Analyzed: 5/9/2019			
Arsenic	2.25830	0.25	0.039	2.50000	0.043715	88.6	63 - 131			
Lead	2.29914	0.25	0.024	2.50000	ND	92.0	59 - 123			
Matrix Spike Dup (B9E0305-MSD1)					Source: 1901519-17		Prepared: 5/8/2019 Analyzed: 5/9/2019			
Arsenic	2.60572	0.25	0.039	2.50000	ND	104	63 - 131	18.7	20	
Lead	2.51158	0.25	0.024	2.50000	0.033832	99.1	59 - 123	18.8	20	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/10/2019

Notes and Definitions

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.

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Thursday, May 2, 2019 8:42 AM
To: Carmen Aguila; Robert Lovdahl
Cc: customer.relations@atlglobal.com
Subject: RE: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Carmen,

Please analyze the following samples for TCLP on a standard TAT:

- JH-6E-1.5 – TCLP arsenic
- JH-6N-1.5 – TCLP arsenic
- JH-6S-1.5 – TCLP arsenic and lead
- JH-6W-1.5 – TCLP arsenic
- JH-17W-1.5 – TCLP lead
- JH-18E-1.5 - TCLP lead
- JH-18W-1.5 – TCLP lead
- JH-19W-1.5 – TCLP lead
- JH-30W-0.5 – TCLP arsenic

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614

(949) 681-4264 – Direct

(949) 880-4439 – Cell

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From: Carmen Aguila [mailto:Carmen.Aguila@atlglobal.com]
Sent: Wednesday, May 01, 2019 3:21 PM
To: Ross Surrency; Lovdahl@leightongroup.com
Cc: customer.relations@atlglobal.com
Subject: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Good afternoon Ross/Robert,

Please find your results for the above project attached. If I can further assist, please let me know.

Thank you,



Carmen Aguila | Sample Control/Field Services Manager
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext 245 | F: 562.989-6348 | M: 562.715.8770
<http://www.atlglobal.com>

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Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

This message is intended for the use of the individual or entity to which it is addressed. This may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone and delete the original message. Thank you.



May 16, 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 : 1901519
Client Reference : LAUSD - Jordan High School, 11640.011

Enclosed are the results for sample(s) received on April 15, 2019 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 'Edgar Caballero', with a small 'En' written below the main signature.

Edgar Caballero
President & 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 - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/16/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JH-16E-3.0	1901519-54	Soil	4/15/19 9:39	4/15/19 14:08

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 JH-16E-3.0

Lab ID: 1901519-54

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	0.16	20	B9E0527	05/15/2019	05/15/19 16:09	D1



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/16/2019

Client Sample ID JH-16E-3.0

Lab ID: 1901519-54

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	0.16	20	B9E0527	05/15/2019	05/15/19 16:09	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/16/2019

QUALITY CONTROL SECTION

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 Limits	RPD	RPD Limit	Notes
Batch B9E0527 - STLC_S Extraction										
Blank (B9E0527-BLK1)					Prepared: 5/15/2019 Analyzed: 5/15/2019					
Arsenic	ND	1.0	0.16							
LCS (B9E0527-BS1)					Prepared: 5/15/2019 Analyzed: 5/15/2019					
Arsenic	1.79362			2.00000		89.7	80 - 120			
Duplicate (B9E0527-DUP1)					Source: 1901519-54 Prepared: 5/15/2019 Analyzed: 5/15/2019					
Arsenic	4.14855	1.0	0.16		4.09099			1.40	20	
Duplicate (B9E0527-DUP2)					Source: 1901740-13 Prepared: 5/15/2019 Analyzed: 5/15/2019					
Arsenic	0.531957	1.0	0.16		0.383118			32.5	20	J, R
Duplicate (B9E0527-DUP3)					Source: 1901840-03 Prepared: 5/15/2019 Analyzed: 5/15/2019					
Arsenic	ND	1.0	0.16		ND			NR	20	
Matrix Spike (B9E0527-MS1)					Source: 1901519-54 Prepared: 5/15/2019 Analyzed: 5/15/2019					
Arsenic	6.11649			2.50000	4.09099	81.0	70 - 130			
Matrix Spike (B9E0527-MS2)					Source: 1901740-13 Prepared: 5/15/2019 Analyzed: 5/15/2019					
Arsenic	2.68330			2.50000	0.383118	92.0	70 - 130			
Matrix Spike Dup (B9E0527-MSD1)					Source: 1901519-54 Prepared: 5/15/2019 Analyzed: 5/15/2019					
Arsenic	6.07481			2.50000	4.09099	79.4	70 - 130	0.684	20	



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/16/2019

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
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.

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Monday, May 13, 2019 10:43 AM
To: Carmen Aguila
Subject: RE: Jordan High School Results

Thanks Carmen. Please analyze on a 3-day TAT.

Ross

From: Carmen Aguila [mailto:Carmen.Aguila@atlglobal.com]
Sent: Monday, May 13, 2019 10:41 AM
To: Ross Surrency
Cc: customer.relations@atlglobal.com
Subject: RE: Jordan High School Results

Good morning Ross,

We did not run sample JH-16E-3.0 for STLC and I did not see a request either. I will schedule the analysis.

Thank you,
Carmen

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Monday, May 13, 2019 10:06 AM
To: Carmen Aguila <Carmen.Aguila@atlglobal.com>
Subject: Jordan High School Results

Carmen,

I seem to be missing an STLC result for arsenic for sample JH-16E-3.0 in work order 1901519. Maybe I forgot to request it. Please check on this for me. If this sample has not been analyzed for STLC, please schedule it.

Thanks,

Ross Surrency, PG
Associate Geologist
Leighton Consulting, Inc.

17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell

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April 25, 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 : 1901525
Client Reference : LAUSD-Jordan HS, 11640

Enclosed are the results for sample(s) received on April, 16 2019 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 be 'Gm' or similar, written in a cursive style.

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-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JH-4N-3.0	1901525-09	Soil	4/16/19 7:22	4/16/19 12:28
SSI-65-3.0	1901525-35	Soil	4/16/19 8:24	4/16/19 12:28
SSI-67-3.0	1901525-43	Soil	4/16/19 8:11	4/16/19 12:28

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

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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

DETECTION SUMMARY

Client Sample ID JH-4N-3.0

Lab ID: 1901525-09

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	B9D0985	04/22/19 18:00	04/24/19 12:14	D1



Certificate of Analysis

Leighton Consulting, Inc.

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Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

DETECTION SUMMARY

Client Sample ID SSI-65-3.0

Lab ID: 1901525-35

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	72	1.0	0.04	20	B9D0985	04/22/19 18:00	04/24/19 12:15	D1



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

DETECTION SUMMARY

Client Sample ID SSI-67-3.0

Lab ID: 1901525-43

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	2.9	1.0	0.04	20	B9D0985	04/22/19 18:00	04/24/19 12:16	D1



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

Client Sample ID JH-4N-3.0

Lab ID: 1901525-09

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	B9D0985	04/22/2019	04/24/19 12:14	D1



Certificate of Analysis

Leighton Consulting, Inc.

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Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

Client Sample ID SSI-65-3.0

Lab ID: 1901525-35

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	72	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:15	D1



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Leighton Consulting, Inc.

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Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

Client Sample ID SSI-67-3.0

Lab ID: 1901525-43

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	2.9	1.0	0.04	20	B9D0985	04/22/2019	04/24/19 12:16	D1



Certificate of Analysis

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

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

QUALITY CONTROL SECTION

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 B9D0985 - EPA 3050B MS_S

Blank (B9D0985-BLK1)

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	ND	0.25	0.01							
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LCS (B9D0985-BS1)

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	4.42792	0.25	0.01	5.00000		88.6	70 - 130			
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Matrix Spike (B9D0985-MS1)

Source: 1901519-06

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	10.6482	1.0	0.04	5.00000	5.97022	93.6	75 - 125			
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Matrix Spike Dup (B9D0985-MSD1)

Source: 1901519-06

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	11.1566	1.0	0.04	5.00000	5.97022	104	75 - 125	4.66	20	
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Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

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
---------	------------------	---------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B9D0985 - EPA 3050B MS_S

Post Spike (B9D0985-PS1)

Source: 1901519-06

Prepared: 4/22/2019 Analyzed: 4/24/2019

Arsenic	7.70895		5.00000	2.98511	94.5	75 - 125			
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Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/25/2019

Notes and Definitions

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.

Dominic Mata

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Monday, April 22, 2019 1:03 PM
To: Dominic Mata
Cc: Robert Lovdahl
Subject: LAUSD Jordan HS

Dominic,

Please analyze the following samples that have been placed on hold for the LAUSD Jordan High School project:

1. JH-4N-3.0 analyze for **As by 6020**
2. SSI-65-3.0 analyze for **As by 6020**
3. SSI-67-3.0 analyze for **As by 6020**

Analyze these samples on a 3-day TAT.

In addition, there were eight samples listed in WO# 1901525 with the prefix "SSL". Please change this prefix to "SSI".

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614

(949) 681-4264 – Direct

(949) 880-4439 – Cell

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May 13, 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 : 1901525
Client Reference : LAUSD-Jordan HS, 11640

Enclosed are the results for sample(s) received on April 16, 2019 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 'Edgar Caballero', with a small 'En' written below the main signature.

Edgar Caballero
President & 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-Jordan HS, 11640

Report To : Ross Surrency

Reported : 05/13/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SSI-65-3.0	1901525-35	Soil	4/16/19 8:24	4/16/19 12:28
SSI-65-5.0	1901525-36	Soil	4/16/19 8:26	4/16/19 12:28
JH-29W-0.5	1901525-55	Soil	4/16/19 9:14	4/16/19 12:28
JH-30W-0.5	1901525-72	Soil	4/16/19 9:43	4/16/19 12:28

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.



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Currency

Reported : 05/13/2019

DETECTION SUMMARY

Client Sample ID SSI-65-3.0

Lab ID: 1901525-35

STLC Metals by ICP-AES by EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.0	1.0	0.16	20	B9E0022	05/01/2019	05/01/19 14:43	

Client Sample ID SSI-65-5.0

Lab ID: 1901525-36

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	16	1.0	0.04	20	B9D1231	04/29/2019	04/29/19 15:46	D1

Client Sample ID JH-29W-0.5

Lab ID: 1901525-55

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.5	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:24	



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Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 05/13/2019

DETECTION SUMMARY

Client Sample ID JH-30W-0.5

Lab ID: 1901525-72

TCLP Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.4	0.25	5	B9E0305	05/08/2019	05/09/19 11:19	D1

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.3	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:25	



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Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 05/13/2019

Client Sample ID SSI-65-3.0

Lab ID: 1901525-35

STLC Metals by ICP-AES by EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.0	1.0	0.16	20	B9E0022	05/01/2019	05/01/19 14:43	



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Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 05/13/2019

Client Sample ID SSI-65-5.0

Lab ID: 1901525-36

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	16	1.0	0.04	20	B9D1231	04/29/2019	04/29/19 15:46	D1



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Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 05/13/2019

Client Sample ID JH-29W-0.5

Lab ID: 1901525-55

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.5	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:24	



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17781 Cowan Street

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Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 05/13/2019

Client Sample ID JH-30W-0.5

Lab ID: 1901525-72

TCLP Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.4	0.25	5	B9E0305	05/08/2019	05/09/19 11:19	D1

STLC Metals by ICP-AES by EPA 6010B

Analyst: KEK

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.3	1.0	0.16	20	B9D1206	04/29/2019	04/29/19 15:25	



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Leighton Consulting, Inc.
17781 Cowan Street
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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Currency
Reported : 05/13/2019

QUALITY CONTROL SECTION

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

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9E0305 - EPA 3010A_S										
Blank (B9E0305-BLK1)					Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	ND	0.050	0.0078							
Blank (B9E0305-BLK2)					Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	ND	0.050	0.0078							
LCS (B9E0305-BS1)					Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	1.00483	0.050	0.0078	1.00000		100	80 - 120			
Duplicate (B9E0305-DUP1)					Source: 1901519-17 Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	0.105054	0.25	0.039		ND			NR	20	
Duplicate (B9E0305-DUP2)					Source: 1901525-72 Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	1.19609	0.25	0.039		1.35366			12.4	20	
Duplicate (B9E0305-DUP3)					Source: 1901662-35 Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	ND	0.25	0.039		0.043715			NR	20	
Matrix Spike (B9E0305-MS1)					Source: 1901519-17 Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	3.14392	0.25	0.039	2.50000	ND	126	63 - 131			
Matrix Spike (B9E0305-MS2)					Source: 1901525-72 Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	3.52083	0.25	0.039	2.50000	1.35366	86.7	63 - 131			
Matrix Spike (B9E0305-MS3)					Source: 1901662-35 Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	2.25830	0.25	0.039	2.50000	0.043715	88.6	63 - 131			
Matrix Spike Dup (B9E0305-MSD1)					Source: 1901519-17 Prepared: 5/8/2019 Analyzed: 5/9/2019					
Arsenic	2.60572	0.25	0.039	2.50000	ND	104	63 - 131	18.7	20	



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 05/13/2019

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 B9D1231 - EPA 3050B MS_S

Blank (B9D1231-BLK1)

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	0.05039	0.25	0.01							J
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LCS (B9D1231-BS1)

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	4.31844	0.25	0.01	5.00000	86.4	70 - 130				
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Duplicate (B9D1231-DUP1)

Source: 1901519-55

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	35.7602	1.0	0.04		36.0293		0.750	200		
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Matrix Spike (B9D1231-MS1)

Source: 1901519-55

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	40.3101	1.0	0.04	5.00000	36.0293	85.6	75 - 125			
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Matrix Spike Dup (B9D1231-MSD1)

Source: 1901519-55

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	38.0015	1.0	0.04	5.00000	36.0293	39.4	75 - 125	5.90	20	M1
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Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 05/13/2019

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 B9D1231 - EPA 3050B MS_S

Post Spike (B9D1231-PS1)

Source: 1901519-55

Prepared: 4/29/2019 Analyzed: 4/29/2019

Arsenic	22.3869		5.00000	18.0146	87.4	75 - 125			
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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 05/13/2019

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 Limits	RPD	RPD Limit	Notes
Batch B9D1206 - STLC_S Extraction										
Blank (B9D1206-BLK1)					Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	ND	1.0	0.16							
Blank (B9D1206-BLK2)					Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	ND	1.0	0.16							
LCS (B9D1206-BS1)					Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	2.04050			2.00000		102	80 - 120			
Duplicate (B9D1206-DUP1)					Source: 1901519-17 Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	0.557380	1.0	0.16		0.440775			23.4	20	J, R
Duplicate (B9D1206-DUP2)					Source: 1901525-72 Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	5.03201	1.0	0.16		5.29910			5.17	20	
Matrix Spike (B9D1206-MS1)					Source: 1901519-17 Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	3.48146			2.50000	0.440775	122	70 - 130			
Matrix Spike (B9D1206-MS2)					Source: 1901525-72 Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	8.44264			2.50000	5.29910	126	70 - 130			
Matrix Spike Dup (B9D1206-MSD1)					Source: 1901519-17 Prepared: 4/29/2019 Analyzed: 4/29/2019					
Arsenic	2.71927			2.50000	0.440775	91.1	70 - 130	24.6	20	R



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

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 05/13/2019

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 Limit	Notes
Batch B9E0022 - STLC_S Extraction										
Blank (B9E0022-BLK1)					Prepared: 5/1/2019 Analyzed: 5/1/2019					
Arsenic	ND	1.0	0.16							
Blank (B9E0022-BLK2)					Prepared: 5/1/2019 Analyzed: 5/1/2019					
Arsenic	0.317655	1.0	0.16							J
LCS (B9E0022-BS1)					Prepared: 5/1/2019 Analyzed: 5/1/2019					
Arsenic	2.23873			2.00000		112	80 - 120			
Duplicate (B9E0022-DUP1)					Source: 1901525-35 Prepared: 5/1/2019 Analyzed: 5/1/2019					
Arsenic	2.97674	1.0	0.16		3.02913			1.74	20	
Duplicate (B9E0022-DUP2)					Source: 1901674-16 Prepared: 5/1/2019 Analyzed: 5/1/2019					
Arsenic	5.74184	1.0	0.16		5.58612			2.75	20	
Matrix Spike (B9E0022-MS1)					Source: 1901525-35 Prepared: 5/1/2019 Analyzed: 5/1/2019					
Arsenic	5.00949			2.50000	3.02913	79.2	70 - 130			
Matrix Spike (B9E0022-MS2)					Source: 1901674-16 Prepared: 5/1/2019 Analyzed: 5/1/2019					
Arsenic	7.60585			2.50000	5.58612	80.8	70 - 130			
Matrix Spike Dup (B9E0022-MSD1)					Source: 1901525-35 Prepared: 5/1/2019 Analyzed: 5/1/2019					
Arsenic	4.71903			2.50000	3.02913	67.6	70 - 130	5.97	20	M1



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Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 05/13/2019

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. 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.
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.

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Friday, April 26, 2019 8:24 AM
To: Carmen Aguila
Cc: customer.relations@atlglobal.com; Robert Lovdahl
Subject: RE: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901525

Carmen,

Please analyze sample SSI-65-3.0 for STLC arsenic on a standard TAT.
Also, please analyze sample SSI-65-5.0 for arsenic by 6020 on a 3-day TAT.

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell

Environmental | Geotechnical | Materials Testing

SOLUTIONS YOU CAN BUILD ON

From: Carmen Aguila [mailto:Carmen.Aguila@atlglobal.com]
Sent: Thursday, April 25, 2019 3:51 PM
To: Ross Surrency
Cc: customer.relations@atlglobal.com
Subject: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901525

Good afternoon Ross,

Please find your results for the above project attached. If I can further assist, please let me know.

Thank you,



Carmen Aguila | Sample Control/Field Services Manager
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext 245 | F: 562.989-6348 | M: 562.715.8770
<http://www.atlglobal.com>

Laboratory Excellence Defined

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Wednesday, April 24, 2019 10:25 AM
To: Carmen Aguila
Cc: Robert Lovdahl
Subject: Jordan HS

Carmen,

There were 9 samples in the Jordan HS data set (April 15 and 16) that were >50 mg/kg for arsenic. Please analyze these 9 samples for STLC.

I am deciding which >50 lead results to run for STLC and will let you know.

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614

(949) 681-4264 – Direct

(949) 880-4439 – Cell

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SOLUTIONS YOU CAN BUILD ON

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Thursday, May 2, 2019 8:42 AM
To: Carmen Aguila; Robert Lovdahl
Cc: customer.relations@atlglobal.com
Subject: RE: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Carmen,

Please analyze the following samples for TCLP on a standard TAT:

- JH-6E-1.5 – TCLP arsenic
- JH-6N-1.5 – TCLP arsenic
- JH-6S-1.5 – TCLP arsenic and lead
- JH-6W-1.5 – TCLP arsenic
- JH-17W-1.5 – TCLP lead
- JH-18E-1.5 - TCLP lead
- JH-18W-1.5 – TCLP lead
- JH-19W-1.5 – TCLP lead
- JH-30W-0.5 – TCLP arsenic

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614

(949) 681-4264 – Direct

(949) 880-4439 – Cell

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SOLUTIONS YOU CAN BUILD ON

From: Carmen Aguila [mailto:Carmen.Aguila@atlglobal.com]
Sent: Wednesday, May 01, 2019 3:21 PM
To: Ross Surrency; Lovdahl@leightongroup.com
Cc: customer.relations@atlglobal.com
Subject: Results- LAUSD - Jordan High School, 11640.011, ATL# 1901519

Good afternoon Ross/Robert,

Please find your results for the above project attached. If I can further assist, please let me know.



April 22, 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 : 1901525
Client Reference : LAUSD-Jordan HS, 11640

Enclosed are the results for sample(s) received on April 16, 2019 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 "E Rodriguez", is written over a light blue horizontal line.

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-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/22/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
JH-4W-0.5	1901525-01	Soil	4/16/19 7:11	4/16/19 12:28
JH-4W-1.5	1901525-02	Soil	4/16/19 7:13	4/16/19 12:28
JH-4S-0.5	1901525-04	Soil	4/16/19 7:12	4/16/19 12:28
JH-4S-1.5	1901525-05	Soil	4/16/19 7:14	4/16/19 12:28
JH-4N-0.5	1901525-07	Soil	4/16/19 7:18	4/16/19 12:28
JH-4N-1.5	1901525-08	Soil	4/16/19 7:20	4/16/19 12:28
JH-2S-0.5	1901525-10	Soil	4/16/19 7:36	4/16/19 12:28
JH-2S-1.5	1901525-11	Soil	4/16/19 7:38	4/16/19 12:28
JH-2W-0.5	1901525-13	Soil	4/16/19 7:32	4/16/19 12:28
JH-2W-0.5DUP	1901525-14	Soil	4/16/19 7:33	4/16/19 12:28
JH-2W-1.5	1901525-15	Soil	4/16/19 7:34	4/16/19 12:28
JH-2N-0.5	1901525-17	Soil	4/16/19 7:23	4/16/19 12:28
JH-2N-1.5	1901525-18	Soil	4/16/19 7:25	4/16/19 12:28
JH-2E-0.5	1901525-20	Soil	4/16/19 7:24	4/16/19 12:28
JH-2E-1.5	1901525-21	Soil	4/16/19 7:26	4/16/19 12:28
JH-3S-0.5	1901525-23	Soil	4/16/19 7:48	4/16/19 12:28
JH-3S-1.5	1901525-24	Soil	4/16/19 7:51	4/16/19 12:28
JH-3W-0.5	1901525-26	Soil	4/16/19 7:52	4/16/19 12:28
JH-3W-1.5	1901525-27	Soil	4/16/19 7:54	4/16/19 12:28
JH-3E-0.5	1901525-29	Soil	4/16/19 7:43	4/16/19 12:28
JH-3E-1.5	1901525-30	Soil	4/16/19 7:44	4/16/19 12:28
JH-3E-1.5DUP	1901525-31	Soil	4/16/19 7:45	4/16/19 12:28
SSI-65-0.5	1901525-33	Soil	4/16/19 8:21	4/16/19 12:28
SSI-65-1.5	1901525-34	Soil	4/16/19 8:22	4/16/19 12:28
SSI-66-0.5	1901525-37	Soil	4/16/19 8:10	4/16/19 12:28
SSI-66-1.5	1901525-38	Soil	4/16/19 8:12	4/16/19 12:28
SSI-67-0.5	1901525-41	Soil	4/16/19 8:06	4/16/19 12:28
SSI-67-1.5	1901525-42	Soil	4/16/19 8:08	4/16/19 12:28
SSI-68-0.5	1901525-45	Soil	4/16/19 7:57	4/16/19 12:28
SSI-68-1.5	1901525-46	Soil	4/16/19 7:59	4/16/19 12:28
JH-28W-0.5	1901525-49	Soil	4/16/19 9:21	4/16/19 12:28
JH-28W-1.5	1901525-50	Soil	4/16/19 9:26	4/16/19 12:28
JH-29E-0.5	1901525-52	Soil	4/16/19 9:25	4/16/19 12:28
JH-29E-1.5	1901525-53	Soil	4/16/19 9:27	4/16/19 12:28
JH-29W-0.5	1901525-55	Soil	4/16/19 9:14	4/16/19 12:28
JH-29W-1.5	1901525-56	Soil	4/16/19 9:16	4/16/19 12:28
JH-28N-0.5	1901525-58	Soil	4/16/19 9:09	4/16/19 12:28



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Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/22/2019

JH-28N-1.5	1901525-59	Soil	4/16/19 9:11	4/16/19 12:28
JH-28E-0.5	1901525-61	Soil	4/16/19 8:59	4/16/19 12:28
JH-28E-1.5	1901525-62	Soil	4/16/19 9:01	4/16/19 12:28
JH-29N-0.5	1901525-64	Soil	4/16/19 8:43	4/16/19 12:28
JH-29N-0.5DUP	1901525-65	Soil	4/16/19 8:44	4/16/19 12:28
JH-29N-1.5	1901525-66	Soil	4/16/19 8:46	4/16/19 12:28
SSI-30-S-E-0.5	1901525-68	Soil	4/16/19 9:30	4/16/19 12:28
SSI-30-S-E-1.5	1901525-69	Soil	4/16/19 9:38	4/16/19 12:28
JH-30W-0.5	1901525-72	Soil	4/16/19 9:43	4/16/19 12:28
JH-30W-1.5	1901525-73	Soil	4/16/19 9:45	4/16/19 12:28
EB-041619	1901525-75	Water	4/16/19 10:20	4/16/19 12:28

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.



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-4W-0.5

Lab ID: 1901525-01

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	13	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:06	

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	4.0	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:17	D1

Client Sample ID JH-4W-1.5

Lab ID: 1901525-02

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	B9D0795	04/17/2019	04/18/19 13:07	

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	B9D0842	04/17/2019	04/19/19 09:21	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-4S-0.5

Lab ID: 1901525-04

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	14	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:07	

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	B9D0842	04/17/2019	04/19/19 09:21	D1

Client Sample ID JH-4S-1.5

Lab ID: 1901525-05

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	26	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:09	

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	B9D0842	04/17/2019	04/19/19 09:22	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-4N-0.5

Lab ID: 1901525-07

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	21	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:10	

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	B9D0842	04/17/2019	04/19/19 09:25	D1

Client Sample ID JH-4N-1.5

Lab ID: 1901525-08

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	B9D0795	04/17/2019	04/18/19 13:11	

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	B9D0842	04/17/2019	04/19/19 09:26	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-2S-0.5

Lab ID: 1901525-10

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	11	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:12	

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	7.0	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:26	D1

Client Sample ID JH-2S-1.5

Lab ID: 1901525-11

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	54	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:19	

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	3.6	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:27	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-2W-0.5

Lab ID: 1901525-13

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	10	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:23	

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	4.4	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:28	D1

Client Sample ID JH-2W-0.5DUP

Lab ID: 1901525-14

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	13	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:24	

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	5.9	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:29	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-2W-1.5

Lab ID: 1901525-15

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	B9D0796	04/17/2019	04/18/19 13:25	

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	4.3	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:30	D1

Client Sample ID JH-2N-0.5

Lab ID: 1901525-17

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	22	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:26	

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	8.9	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:31	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-2N-1.5

Lab ID: 1901525-18

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	35	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:27	

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	B9D0842	04/17/2019	04/19/19 09:31	D1

Client Sample ID JH-2E-0.5

Lab ID: 1901525-20

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	19	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:28	

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	8.4	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:32	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-2E-1.5

Lab ID: 1901525-21

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	61	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:32	

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	5.6	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:35	D1

Client Sample ID JH-3S-0.5

Lab ID: 1901525-23

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	29	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:32	

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	14	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:36	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-3S-1.5

Lab ID: 1901525-24

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	23	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:33	

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	B9D0842	04/17/2019	04/19/19 09:36	D1

Client Sample ID JH-3W-0.5

Lab ID: 1901525-26

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	21	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:34	

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	9.2	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:37	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-3W-1.5

Lab ID: 1901525-27

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	35	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:36	

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	6.5	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:38	D1

Client Sample ID JH-3E-0.5

Lab ID: 1901525-29

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	8.1	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:36	

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	3.6	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:39	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-3E-1.5

Lab ID: 1901525-30

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	23	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:37	

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	B9D0843	04/17/2019	04/19/19 09:41	D1

Client Sample ID JH-3E-1.5DUP

Lab ID: 1901525-31

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	26	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:39	

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	B9D0843	04/17/2019	04/19/19 09:47	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID SSI-65-0.5

Lab ID: 1901525-33

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	6.5	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:39	

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	3.0	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:48	D1

Client Sample ID SSI-65-1.5

Lab ID: 1901525-34

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	B9D0796	04/17/2019	04/18/19 13:41	

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	37	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:49	D1



Certificate of Analysis

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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID SSI-66-0.5

Lab ID: 1901525-37

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	17	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:44	

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	6.7	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:50	D1

Client Sample ID SSI-66-1.5

Lab ID: 1901525-38

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	19	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:45	

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	9.5	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:50	D1



Certificate of Analysis

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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID SSI-67-0.5

Lab ID: 1901525-41

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	6.3	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:49	

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	B9D0843	04/17/2019	04/19/19 09:51	D1

Client Sample ID SSI-67-1.5

Lab ID: 1901525-42

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	22	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:53	

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	21	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:52	D1



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17781 Cowan Street
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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID SSI-68-0.5

Lab ID: 1901525-45

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	17	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:54	

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	5.1	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:55	D1

Client Sample ID SSI-68-1.5

Lab ID: 1901525-46

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	19	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:58	

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	7.8	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:56	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-28W-0.5

Lab ID: 1901525-49

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	28	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:59	

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	30	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:56	D1

Client Sample ID JH-28W-1.5

Lab ID: 1901525-50

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	9.3	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:00	

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	3.8	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:57	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-29E-0.5

Lab ID: 1901525-52

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	42	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:01	

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	44	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:58	D1

Client Sample ID JH-29E-1.5

Lab ID: 1901525-53

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	9.9	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:02	

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	4.0	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:59	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-29W-0.5

Lab ID: 1901525-55

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	B9D0797	04/17/2019	04/18/19 14:03	

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	60	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:00	D1

Client Sample ID JH-29W-1.5

Lab ID: 1901525-56

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	9.7	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:03	

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	4.0	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:00	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-28N-0.5

Lab ID: 1901525-58

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	B9D0797	04/17/2019	04/18/19 14:04	

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	25	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:01	D1

Client Sample ID JH-28N-1.5

Lab ID: 1901525-59

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	9.6	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:05	

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	5.2	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:02	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
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DETECTION SUMMARY

Client Sample ID JH-28E-0.5

Lab ID: 1901525-61

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	17	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:06	

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	5.5	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:05	D1

Client Sample ID JH-28E-1.5

Lab ID: 1901525-62

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	7.4	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:30	

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	4.5	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:05	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-29N-0.5

Lab ID: 1901525-64

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	29	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:31	

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	19	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:08	D1

Client Sample ID JH-29N-0.5DUP

Lab ID: 1901525-65

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	24	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:32	

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	7.2	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:12	D1



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DETECTION SUMMARY

Client Sample ID JH-29N-1.5

Lab ID: 1901525-66

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	9.6	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:34	

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	B9D0844	04/17/2019	04/19/19 10:14	D1

Client Sample ID SSI-30-S-E-0.5

Lab ID: 1901525-68

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	B9D0797	04/17/2019	04/18/19 15:45	

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	7.6	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:15	D1



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Project Number : LAUSD-Jordan HS, 11640
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DETECTION SUMMARY

Client Sample ID SSI-30-S-E-1.5

Lab ID: 1901525-69

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	7.2	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:46	

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	4.9	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:16	D1

Client Sample ID JH-30W-0.5

Lab ID: 1901525-72

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	28	1.0	0.18	1	B9D0798	04/17/2019	04/18/19 14:17	

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	110	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:17	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

DETECTION SUMMARY

Client Sample ID JH-30W-1.5

Lab ID: 1901525-73

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	1.9	1.0	0.18	1	B9D0798	04/17/2019	04/18/19 14:18	

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	B9D0844	04/17/2019	04/19/19 10:18	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

Client Sample ID JH-4W-0.5

Lab ID: 1901525-01

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	13	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:06	

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	4.0	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:17	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-4W-1.5

Lab ID: 1901525-02

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	B9D0795	04/17/2019	04/18/19 13:07	

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	B9D0842	04/17/2019	04/19/19 09:21	D1



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Project Number : LAUSD-Jordan HS, 11640
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Client Sample ID JH-4S-0.5

Lab ID: 1901525-04

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	14	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:07	

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	B9D0842	04/17/2019	04/19/19 09:21	D1



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Client Sample ID JH-4S-1.5

Lab ID: 1901525-05

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	26	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:09	

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	B9D0842	04/17/2019	04/19/19 09:22	D1



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Client Sample ID JH-4N-0.5

Lab ID: 1901525-07

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	21	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:10	

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	B9D0842	04/17/2019	04/19/19 09:25	D1



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Reported : 04/22/2019

Client Sample ID JH-4N-1.5

Lab ID: 1901525-08

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	B9D0795	04/17/2019	04/18/19 13:11	

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	B9D0842	04/17/2019	04/19/19 09:26	D1



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Project Number : LAUSD-Jordan HS, 11640
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Client Sample ID JH-2S-0.5

Lab ID: 1901525-10

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	11	1.0	0.18	1	B9D0795	04/17/2019	04/18/19 13:12	

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	7.0	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:26	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-2S-1.5

Lab ID: 1901525-11

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	54	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:19	

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	3.6	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:27	D1



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Project Number : LAUSD-Jordan HS, 11640
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Client Sample ID JH-2W-0.5

Lab ID: 1901525-13

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	10	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:23	

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	4.4	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:28	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

Client Sample ID JH-2W-0.5DUP

Lab ID: 1901525-14

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	13	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:24	

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	5.9	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:29	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-2W-1.5

Lab ID: 1901525-15

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	B9D0796	04/17/2019	04/18/19 13:25	

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	4.3	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:30	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-2N-0.5

Lab ID: 1901525-17

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	22	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:26	

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	8.9	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:31	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-2N-1.5

Lab ID: 1901525-18

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	35	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:27	

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	B9D0842	04/17/2019	04/19/19 09:31	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-2E-0.5

Lab ID: 1901525-20

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	19	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:28	

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	8.4	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:32	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-2E-1.5

Lab ID: 1901525-21

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	61	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:32	

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	5.6	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:35	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-3S-0.5

Lab ID: 1901525-23

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	29	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:32	

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	14	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:36	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-3S-1.5

Lab ID: 1901525-24

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	23	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:33	

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	B9D0842	04/17/2019	04/19/19 09:36	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-3W-0.5

Lab ID: 1901525-26

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	21	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:34	

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	9.2	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:37	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-3W-1.5

Lab ID: 1901525-27

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	35	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:36	

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	6.5	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:38	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-3E-0.5

Lab ID: 1901525-29

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	8.1	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:36	

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	3.6	1.0	0.04	20	B9D0842	04/17/2019	04/19/19 09:39	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-3E-1.5

Lab ID: 1901525-30

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	23	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:37	

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	B9D0843	04/17/2019	04/19/19 09:41	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-3E-1.5DUP

Lab ID: 1901525-31

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	26	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:39	

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	B9D0843	04/17/2019	04/19/19 09:47	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID SSI-65-0.5

Lab ID: 1901525-33

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	6.5	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:39	

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	3.0	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:48	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

Client Sample ID SSI-65-1.5

Lab ID: 1901525-34

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	B9D0796	04/17/2019	04/18/19 13:41	

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	37	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:49	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID SSI-66-0.5

Lab ID: 1901525-37

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	17	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:44	

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	6.7	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:50	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

Client Sample ID SSI-66-1.5

Lab ID: 1901525-38

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	19	1.0	0.18	1	B9D0796	04/17/2019	04/18/19 13:45	

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	9.5	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:50	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID SSI-67-0.5

Lab ID: 1901525-41

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	6.3	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:49	

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	B9D0843	04/17/2019	04/19/19 09:51	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

Client Sample ID SSI-67-1.5

Lab ID: 1901525-42

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	22	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:53	

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	21	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:52	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID SSI-68-0.5

Lab ID: 1901525-45

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	17	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:54	

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	5.1	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:55	D1



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Project Number : LAUSD-Jordan HS, 11640
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Client Sample ID SSI-68-1.5

Lab ID: 1901525-46

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	19	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:58	

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	7.8	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:56	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-28W-0.5

Lab ID: 1901525-49

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	28	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 13:59	

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	30	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:56	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-28W-1.5

Lab ID: 1901525-50

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	9.3	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:00	

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	3.8	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:57	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-29E-0.5

Lab ID: 1901525-52

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	42	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:01	

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	44	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:58	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-29E-1.5

Lab ID: 1901525-53

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	9.9	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:02	

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	4.0	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 09:59	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-29W-0.5

Lab ID: 1901525-55

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	B9D0797	04/17/2019	04/18/19 14:03	

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	60	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:00	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-29W-1.5

Lab ID: 1901525-56

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	9.7	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:03	

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	4.0	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:00	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-28N-0.5

Lab ID: 1901525-58

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	B9D0797	04/17/2019	04/18/19 14:04	

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	25	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:01	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-28N-1.5

Lab ID: 1901525-59

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	9.6	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:05	

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	5.2	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:02	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-28E-0.5

Lab ID: 1901525-61

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	17	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 14:06	

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	5.5	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:05	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-28E-1.5

Lab ID: 1901525-62

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	7.4	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:30	

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	4.5	1.0	0.04	20	B9D0843	04/17/2019	04/19/19 10:05	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-29N-0.5

Lab ID: 1901525-64

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	29	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:31	

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	19	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:08	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-29N-0.5DUP

Lab ID: 1901525-65

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	24	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:32	

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	7.2	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:12	D1



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Project Number : LAUSD-Jordan HS, 11640
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Client Sample ID JH-29N-1.5

Lab ID: 1901525-66

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	9.6	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:34	

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	B9D0844	04/17/2019	04/19/19 10:14	D1



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Client Sample ID SSI-30-S-E-0.5

Lab ID: 1901525-68

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	B9D0797	04/17/2019	04/18/19 15:45	

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	7.6	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:15	D1



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/22/2019

Client Sample ID SSI-30-S-E-1.5

Lab ID: 1901525-69

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	7.2	1.0	0.18	1	B9D0797	04/17/2019	04/18/19 15:46	

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	4.9	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:16	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID JH-30W-0.5

Lab ID: 1901525-72

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	28	1.0	0.18	1	B9D0798	04/17/2019	04/18/19 14:17	

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	110	1.0	0.04	20	B9D0844	04/17/2019	04/19/19 10:17	D1



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Reported : 04/22/2019

Client Sample ID JH-30W-1.5

Lab ID: 1901525-73

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	1.9	1.0	0.18	1	B9D0798	04/17/2019	04/18/19 14:18	

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	B9D0844	04/17/2019	04/19/19 10:18	D1



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

Client Sample ID EB-041619

Lab ID: 1901525-75

Total Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.0050	1	B9D0829	04/17/2019	04/18/19 08:37	

Total Metals by ICP-MS EPA 6020

Analyst: PT

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	1.0	1	B9D0780	04/17/2019	04/18/19 12:49	



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Reported : 04/22/2019

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 Limits	RPD	RPD Limit	Notes
Batch B9D0795 - EPA 3050B_S										
Blank (B9D0795-BLK1)					Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	ND	1.0	0.18							
LCS (B9D0795-BS1)					Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	41.4859	1.0	0.18	50.0000		83.0	80 - 120			
Duplicate (B9D0795-DUP1)					Source: 1901519-86 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	86.3738	1.0	0.18		85.3992			1.13	20	
Duplicate (B9D0795-DUP2)					Source: 1901525-10 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	18.7983	1.0	0.18		11.1499			51.1	20	R
Matrix Spike (B9D0795-MS1)					Source: 1901519-86 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	204.723	1.0	0.18	99.5025	85.3992	120	29 - 126			
Matrix Spike Dup (B9D0795-MSD1)					Source: 1901519-86 Prepared: 4/17/2019 Analyzed: 4/18/2019					
Lead	166.293	1.0	0.18	100.000	85.3992	80.9	29 - 126	20.7	20	R



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

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 Limits	RPD	RPD Limit	Notes
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Batch B9D0796 - EPA 3050B_S

Blank (B9D0796-BLK1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead ND 1.0 0.18

LCS (B9D0796-BS1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 40.4258 1.0 0.18 50.0000 80.9 80 - 120

Duplicate (B9D0796-DUP1)

Source: 1901525-11

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 56.1514 1.0 0.18 54.3260 3.30 20

Matrix Spike (B9D0796-MS1)

Source: 1901525-11

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 133.172 1.0 0.18 100.000 54.3260 78.8 29 - 126

Matrix Spike Dup (B9D0796-MSD1)

Source: 1901525-11

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 119.184 1.0 0.18 100.502 54.3260 64.5 29 - 126 11.1 20



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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 Limits	RPD	RPD Limit	Notes
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Batch B9D0797 - EPA 3050B_S

Blank (B9D0797-BLK1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead ND 1.0 0.18

LCS (B9D0797-BS1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 40.8493 1.0 0.18 50.0000 81.7 80 - 120

Duplicate (B9D0797-DUP1)

Source: 1901525-41

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 8.32482 1.0 0.18 6.30259 27.6 20 R

Matrix Spike (B9D0797-MS1)

Source: 1901525-41

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 85.2458 1.0 0.18 100.000 6.30259 78.9 29 - 126

Matrix Spike Dup (B9D0797-MSD1)

Source: 1901525-41

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 76.0774 1.0 0.18 100.000 6.30259 69.8 29 - 126 11.4 20



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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 Limits	RPD	RPD Limit	Notes
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Batch B9D0798 - EPA 3050B_S

Blank (B9D0798-BLK1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead ND 1.0 0.18

LCS (B9D0798-BS1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 45.7162 1.0 0.18 50.0000 91.4 80 - 120

Duplicate (B9D0798-DUP1)

Source: 1901525-73

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 2.23692 1.0 0.18 1.91251 15.6 20

Matrix Spike (B9D0798-MS1)

Source: 1901525-73

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 85.2218 1.0 0.18 100.000 1.91251 83.3 29 - 126

Matrix Spike Dup (B9D0798-MSD1)

Source: 1901525-73

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 85.0187 1.0 0.18 100.000 1.91251 83.1 29 - 126 0.239 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 Limits	RPD	RPD Limit	Notes
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Batch B9D0829 - EPA 3010A_W

Blank (B9D0829-BLK1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead ND 0.0050 0.0047

LCS (B9D0829-BS1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 0.876097 0.0050 0.0047 1.00000 87.6 80 - 120

Duplicate (B9D0829-DUP1)

Source: 1901525-75

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead ND 0.0050 0.0047 ND NR 20

Matrix Spike (B9D0829-MS1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 2.32120 0.0050 0.0047 2.00000 ND 116 72 - 105 M1

Matrix Spike Dup (B9D0829-MSD1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Lead 2.17559 0.0050 0.0047 2.00000 ND 109 72 - 105 6.48 20 M1



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Reported : 04/22/2019

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 Limits	RPD	RPD Limit	Notes
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Batch B9D0780 - EPA 3010A MS_W

Blank (B9D0780-BLK1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	ND	1.0	0.98	
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LCS (B9D0780-BS1)

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	9.96400	1.0	0.98	10.0000	99.6	85 - 115
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Duplicate (B9D0780-DUP1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	ND	1.0	0.98		ND	NR	20
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Matrix Spike (B9D0780-MS1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	9.82340	1.0	0.98	10.0000	ND	98.2	75 - 125
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Matrix Spike Dup (B9D0780-MSD1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	10.0313	1.0	0.98	10.0000	ND	100	75 - 125	2.09	20
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Post Spike (B9D0780-PS1)

Source: 1901519-AD

Prepared: 4/17/2019 Analyzed: 4/18/2019

Arsenic	5.22325			5.00000	0.04153	104	75 - 125
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Reported : 04/22/2019

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 B9D0842 - EPA 3050B MS_S

Blank (B9D0842-BLK1)

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic ND 0.25 0.01

LCS (B9D0842-BS1)

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic 4.41618 0.25 0.01 5.00000 88.3 70 - 130

Duplicate (B9D0842-DUP1)

Source: 1901525-01

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic 4.09887 1.0 0.04 4.00174 2.40 200

Matrix Spike (B9D0842-MS1)

Source: 1901525-01

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic 8.54553 1.0 0.04 5.00000 4.00174 90.9 75 - 125

Matrix Spike Dup (B9D0842-MSD1)

Source: 1901525-01

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic 8.78145 1.0 0.04 5.00000 4.00174 95.6 75 - 125 2.72 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 B9D0842 - EPA 3050B MS_S

Post Spike (B9D0842-PS1)

Source: 1901525-01

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	6.94877		5.00000	2.00087	99.0	75 - 125			
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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

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 B9D0843 - EPA 3050B MS_S

Blank (B9D0843-BLK1)

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	0.087862	0.25	0.01							J
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LCS (B9D0843-BS1)

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	4.31810	0.25	0.01	5.00000		86.4	70 - 130			
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Duplicate (B9D0843-DUP1)

Source: 1901525-30

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	3.38301	1.0	0.04		3.78930			11.3	200	
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Matrix Spike (B9D0843-MS1)

Source: 1901525-30

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	7.86982	1.0	0.04	5.00000	3.78930	81.6	75 - 125			
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Matrix Spike Dup (B9D0843-MSD1)

Source: 1901525-30

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	7.83274	1.0	0.04	5.00000	3.78930	80.9	75 - 125	0.472	20	
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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

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 B9D0843 - EPA 3050B MS_S

Post Spike (B9D0843-PS1)

Source: 1901525-30

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	6.72876		5.00000	1.89465	96.7	75 - 125			
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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

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 B9D0844 - EPA 3050B MS_S

Blank (B9D0844-BLK1)

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	0.078126	0.25	0.01							J
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LCS (B9D0844-BS1)

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	4.40839	0.25	0.01	5.00000		88.2	70 - 130			
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Duplicate (B9D0844-DUP1)

Source: 1901525-64

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	19.4515	1.0	0.04		19.3783			0.377	200	
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Matrix Spike (B9D0844-MS1)

Source: 1901525-64

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	27.2510	1.0	0.04	5.00000	19.3783	157	75 - 125			M1
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Matrix Spike Dup (B9D0844-MSD1)

Source: 1901525-64

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	27.3374	1.0	0.04	5.00000	19.3783	159	75 - 125	0.317	20	M1
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Certificate of Analysis

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

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/22/2019

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
---------	------------------	---------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B9D0844 - EPA 3050B MS_S

Post Spike (B9D0844-PS1)

Source: 1901525-64

Prepared: 4/17/2019 Analyzed: 4/19/2019

Arsenic	25.2264		5.00000	9.68916	311	75 - 125			
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Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/22/2019

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M1	Matrix spike recovery outside of acceptance limit. 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.
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.

CHAIN OF CUSTODY RECORD

Page 1 of 8

Method of Transport		Sample Conditions Upon Receipt	
Client	ATL	Condition	Y N
FedEx	OnTrac	1. CHILLED	Y N
USO		2. HEADSPACE (VIA)	Y N
Other		3. CONTAINER INTACT	Y N
		4. SEALED	Y N
		5. # OF SAMPLES MATCH DOC	Y N
		6. PRESERVED	Y N
		7. COOLER TEMP. DEG C	Y N

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421		Fax:	
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		Attn:		Accounts Payable		Email: acctpayable@leightongroup.com		EDD		QA/QC	
Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Excel		Caltrans	
Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Legal		RWOCB		Level IV	
Project Name: LAUSD - Jordan High School		Quote #: 11640.011		Project No.: 11640.011		Sampler: SAG		Special Instructions/Comments:		Requested Analysis		Sample Matrix	

ITEM	Laboratory ID (For Lab Use Only)	Sample Description		Date	Time	Requested Analysis										Sample Matrix				Turnaround Time (TAT)		Quantity		Container	Remarks
		Sample ID / Location				8015 (GRO)	8015 (DRO)	6010 / 7000 (Tille 22 Metals)	8081 (Organochlorine Pesticides)	8260 / 824 (Volatiles)	Select Analysis	Select Analysis	Select Analysis	LEAD by 6010	ARSENIC by 6020	Select Solid Matrix	Select Water Matrix	Select Non-aqueous Matrix	Enter Custom Matrix						
1	1601525 -01	JH-4W-0.5		4-16-14	0711																				
2	-02	JH-4W-1.5			0713																				
3	-03	JH-4W-3.0			0715																				
4	-04	JH-4S-0.5			0712																				
5	-05	JH-4S-1.5			0714																				
6	-06	JH-4S-3.0			0716																				
7	-07	JH-4N-0.5			0718																				
8	-08	JH-4N-1.5			0720																				
9	-09	JH-4N-3.0			0722																				
10	-10	JH-2S-0.5			0736																				

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 : 100% 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 : 10% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
TAT = 4 : 10% 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 TAT 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/EDOs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDO.
10. Rush TAT/SLC 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: 4-16-14	Time: 12:20
Relinquished by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:
Relinquished 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.

Sabrina Gonzalez
Printed Name
Signature



ADVANCED LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 8

For Laboratory Use Only		ATLCOG Ver: 20180321	
Method of Transport		Sample Conditions Upon Receipt	
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	<input type="checkbox"/> Condition	<input type="checkbox"/> Y
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	<input type="checkbox"/> 1. CHILLED	<input type="checkbox"/> N
<input type="checkbox"/> GSO	<input type="checkbox"/> Other:	<input type="checkbox"/> 2. HEADSPACE (N/A)	<input type="checkbox"/> 5. 40S SAMPLES MATCH COC
<input type="checkbox"/>		<input type="checkbox"/> 3. CONTAINER INTACT	<input type="checkbox"/> 6. PRESERVED
<input type="checkbox"/>		<input type="checkbox"/> 4. SEALED	<input type="checkbox"/> 7. COOLER TEMP, deg C:

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421		Fax:	
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		SEND REPORT TO:		SEND INVOICE TO:		State: CA		Zip: 92614		Fax:	
Company: Leighton Consulting		Attn: Accounts Payable		Email: acctpayable@leightongroup.com		EOD		Excel		QA/QC		EDF	
Address: 17781 Cowan		Company: Leighton Group		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Legal	
City: Irvine		State: CA		Zip: 92614		City: Irvine		State: CA		Zip: 92614		RWQCB	
Project Name: LAUSD - Jordan High School		Quote #: 11640.011		Special Instructions/Comments:		Requested Analysis		Sample Matrix		Turnaround Time (TAT)		Container	
Project No.: 11640.011		PO #: 11640.011				Select Analysis		Select Non-aqueous Matrix		Enter Custom Matrix		Material: 1-Gravel; 2-Plastic; 3-Metal	
Sampler: SAG						LEAD by 6010		Select Water Matrix		Select Solid Matrix		Type: 1-Gravel; 2-Plastic; 3-Metal	
Laboratory ID (For Lab Use Only)		Sample ID / Location		Sample Description		Date		Time		Quantity		Remarks	

ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Sample Description	Date	Time	Requested Analysis	Sample Matrix	Turnaround Time (TAT)	Container	Remarks
1	1601525-11	JH-2S-1.5	JH-2S-1.5	4-16-14	0738	ARSENIC by 6020	Hold	3	1	4
2	-12	JH-2S-3.0	JH-2S-3.0		0740					
3	-13	JH-2W-0.5	JH-2W-0.5		0732					
4	-14	JH-2W-0.5 DUP	JH-2W-0.5 DUP		0733					
5	-15	JH-2W-1.5	JH-2W-1.5		0734					
6	-16	JH-2W-3.0	JH-2W-3.0		0737					
7	-17	JH-2N-0.5	JH-2N-0.5		0723					
8	-18	JH-2N-1.5	JH-2N-1.5		0725					
9	-14	JH-2N-3.0	JH-2N-3.0		0727					
10	-20	JH-2E-0.5	JH-2E-0.5		0724					

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday, Saturday 8:00 AM to 12:00 PM.		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.	
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.		7. Electronic records maintained for five (5) years from report date.	
3. The following turnaround time conditions apply: TAT = 0 : 300% Surcharge SAME BUSINESS DAY (COB 5:00 PM) 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)		8. Hard copy reports will be disposed of after 45 calendar days from report date.	
4. Weekend, holiday, after-hours work - ask for quote.		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.	
5. Subcontract TAT is 10-15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab - ask for quote.		10. Regenerated/Informant report: \$35 per reprocessed EOD.	
		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 (MSD/MSD) at no cost. However, if you want the laboratory to additionally perform MSD/MSD on your sample, a charge will be assessed for the specific sample used.	

Relinquished by: (Signature and Printed Name)		Date: 4-16-14		Time: 12:28	
Relinquished by: (Signature and Printed Name)		Date: 4/16/14		Time: 12:28	
Relinquished by: (Signature and Printed Name)		Date:		Time:	
Relinquished 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 payments as quoted.

Sabrina Gonzalez

Printed Name

Signature

CHAIN OF CUSTODY RECORD

Page 3 of 8

For Laboratory Use Only		ATLCCOC Ver: 20180321	
Method of Transport	Sample Conditions Upon Receipt	Condition	Y/N
<input type="checkbox"/> Client <input type="checkbox"/> FedEx <input type="checkbox"/> UPS <input type="checkbox"/> Other:	<input type="checkbox"/> 1. CHILLED <input type="checkbox"/> 2. HEADSPACE (N2) <input type="checkbox"/> 3. CONTAINER INTACT <input type="checkbox"/> 4. SEALED	<input type="checkbox"/> 5. # OF SAMPLES MATCH COC <input type="checkbox"/> 6. PRESERVED <input type="checkbox"/> 7. COOLER TEMP. deg. C <input type="checkbox"/> 8. OTHER:	<input type="checkbox"/> Y <input type="checkbox"/> N

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421		Fax:	
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		SEND REPORT TO:		SEND INVOICE TO:		<input type="checkbox"/> same as SEND REPORT TO Email: accpayable@leightongroup.com		EDD		QA/QC	
Company: Leighton Consulting		Accounts Payable		Company: Leighton Group		Leighton Group		Leighton Group		Excel		<input type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RWQCB <input type="checkbox"/> Level IV <input type="checkbox"/>	
Address: 17781 Cowan		Address: 17781 Cowan		Address: 17781 Cowan		Address: 17781 Cowan		Address: 17781 Cowan		Address: 17781 Cowan		Address: 17781 Cowan	
City: Irvine		City: Irvine		City: Irvine		City: Irvine		City: Irvine		City: Irvine		City: Irvine	

Project Name: LAUSD - Jordan High School		Quote #: 11640.011		PO #: 11640.011		Sampler: SAG		Special Instructions/Comments:	
ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	Sample Description	Requested Analysis	Sample Matrix	Turnaround Time (TAT)	Container
1	190525-21	JH-2E-1.5	4-16-14	0726	JH-2E-1.5	ARSENIC by 6020	Soil	3	1
2	-22	JH-2E-3.0		0726	JH-2E-3.0	LEAD by 6010	Soil	1	1
3	-23	JH-3S-0.5		0748	JH-3S-0.5	Select Analysis	Select Water Matrix	1	1
4	-24	SH-3S-1.5		0751	SH-3S-1.5	Select Analysis	Select Water Matrix	1	1
5	-25	JH-3S-3.0		0753	JH-3S-3.0	Select Analysis	Select Water Matrix	1	1
6	-26	JH-3NW-0.5		0752	JH-3NW-0.5	Select Analysis	Select Water Matrix	1	1
7	-27	JH-3NW-1.5		0754	JH-3NW-1.5	Select Analysis	Select Water Matrix	1	1
8	-28	JH-3NW-3.0		0755	JH-3NW-3.0	Select Analysis	Select Water Matrix	1	1
9	-29	JH-3E-0.5		0743	JH-3E-0.5	Select Analysis	Select Water Matrix	1	1
10	-30	JH-3E-1.5		0744	JH-3E-1.5	Select Analysis	Select Water Matrix	1	1

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: 100% 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 TAT 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 requested; \$50.00 per regenerated/reformatted report; \$35 per reprocessed EDD. 10. Rush TAT/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.	
---	--

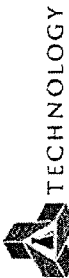
Relinquished by: (Signature and Printed Name) Relinquished by: (Signature and Printed Name) Relinquished by: (Signature and Printed Name)		Date: 4-16-14 Date: 4-16-14 Date: 4-16-14		Time: 12:20 Time: Time:	
---	--	---	--	-------------------------------	--

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Sabrina Gonzalez

Printed Name

Signature



CHAIN OF CUSTODY RECORD

Page 1 of 8

100

Instruction: Complete all shaded areas.

Method of Transport		For Laboratory Use Only				ATCC CDC Ver:20180321			
		Simple Conditions Upon Receipt							
		Condition		Y	N	Y	N		
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	1. CHILLED		<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH CDC		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	2. HEADSPACE (N/A)		<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> GSO		3. COMPARTMENT IN CONTACT		<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP., deg C:			
<input type="checkbox"/> Other:		4. SEALED		<input type="checkbox"/>	<input type="checkbox"/>				

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		Tel: 949-250-1421	
City: Irvine		State: CA		Zip: 92614	
Fax:					
SEND REPORT TO:		SEND INVOICE TO:			
Attn: Ross Surrency		Email: rsurrency@leighongroup.com		Attn: Accounts Payable	
Company: Leighton Consulting				Email: acctpayable@leighongroup.com	
Address: 17781 Cowan				Company: Leighton Group	
City: Irvine		State: CA		Zip: 92614	
Address: 17781 Cowan		17781 Cowan		Address:	
City: Irvine		State: CA		Zip: 92614	

Project Name: LAUSD - Jordan High School			Quote #:		Special Instructions/Comments:	
Project No.:		PO #:				
11640.011		11640.011				
Sampler: SAG						
ITEM	Laboratory ID (For Lab Use Only)	Sample Description		Sample ID / Location	Date	Time
1	140525	-31	TH-3E-1.5 DUP		4-14-19	0745
2		-32	TH-3E-3.0			0747
3		-33	SS1-6S-0.5			0821
4		-34	SS1-6S-1.5			0822
5		-35	SS1-6S-3.0			0824
6		-36	SS1-6S-5.0			0826
7		-37	SS1-66-0.5			0810
8		-38	SS1-66-1.5			0812
9		-39	SS1-66-3.0			0813
10		-40	SS1-66-5.0			0815

TERMS	
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 - 1:00M Surcharge SAME BUSINESS DAY (if received by 9:00 AM)	
TAT = 1 - 3:00M Surcharge NEXT BUSINESS DAY (COB 5:00 PM)	
TAT = 2 - 1:50M Surcharge 2ND BUSINESS DAY (COB 5:00 PM)	
TAT = 3 - 3:00M Surcharge 3RD BUSINESS DAY (COB 5:00 PM)	
TAT = 4 - 2:00M 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	
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.	to the subcontract lab - ask for quote.
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/EDOs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformatted report; \$35 per regenerated EDO.	
10. Rush TCT/STL samples: add 2 days to analysis \$7 per sample.	
11. Unanalyzed samples will incur a disposal fee of \$7 per sample.	
12. The laboratory will randomly select all air 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: 4-16-14	Time: 12:28	Received by: (Signature and Printed Name)	Date: 4/16/14	Time: 12:28
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.

Sabrina Gonzalez

Printed Name

Signature

Page 92 of 97



ADVANCED TECHNOLOGY
LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 8

For Laboratory Use Only		ATL CDC Ver: 20180321	
Method of Transport		Sample Conditions Upon Receipt	
Client	ATL	Condition	Y N
Freight	Freight	5. # OF SAMPLES MATCH COC	Y N
GSO	GSO	6. PRESERVED	Y N
Other	Other	7. COOLER TEMP. deg. C	Y N
		8. SEALED	Y N

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		Tel: 949-250-1421	
City: Irvine		State: CA		Zip: 92614	
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		Fax:	
Company: Leighton Consulting		Accounts Payable		Email: acctpayable@leightongroup.com	
Address: 17781 Cowan		Company: Leighton Group		EDD	
City: Irvine		Address: 17781 Cowan		Excel <input type="checkbox"/>	
State: CA		City: Irvine		EDF <input type="checkbox"/>	
Zip: 92614		State: CA		Equis <input type="checkbox"/>	
		Zip: 92614		RWQCB <input type="checkbox"/>	
				Level IV <input type="checkbox"/>	
				QA/QC	
				Routin <input type="checkbox"/>	
				Caltrans <input type="checkbox"/>	
				Legal <input type="checkbox"/>	
				RWQCB <input type="checkbox"/>	
				Level IV <input type="checkbox"/>	

Project Name:		Quote #:		Special Instructions/Comments:	
LAUSD - Jordan High School					
Project No.: 11640.011		PO #: 11640.011			
Sampler: SAG					
ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	Remarks
1	190825-41	SS1-67-0.5	4-16-14	0806	
2	190825-42	SS1-67-1.5		0808	
3	190825-43	SS1-67-3.0		0811	
4	190825-44	SS1-67-5.0		0814	
5	190825-45	SS1-68-0.5		0757	
6	190825-46	SS1-68-1.5		0759	
7	190825-47	SS1-68-3.0		0801	
8	190825-48	SS1-68-5.0		0803	
9	190825-49	JH-28W-0.5		0821	
10	190825-50	JH-28W-1.5		0826	

Requested Analysis		Sample Matrix		Container	
6015 (GRO)		Select Solid Matrix		Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6016 (DRO)		Select Non-aqueous Matrix		Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6017 (Organochlorine Pesticides)		Select Wastewater Matrix		Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6018 (Volatile)		Select Water Matrix		Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6019 (Pesticides)		Select Custom Matrix		Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6020 (Lead by 6010)		Enter Custom Matrix		Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6021 (Arsenic by 6020)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6022 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6023 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6024 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6025 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6026 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6027 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6028 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6029 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6030 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6031 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6032 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6033 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6034 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6035 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6036 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6037 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6038 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6039 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6040 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6041 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6042 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6043 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6044 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6045 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6046 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6047 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6048 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6049 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6050 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6051 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6052 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6053 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6054 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6055 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6056 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6057 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6058 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6059 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6060 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6061 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6062 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6063 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6064 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6065 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6066 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6067 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6068 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6069 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6070 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6071 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6072 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6073 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6074 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6075 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6076 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6077 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6078 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6079 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6080 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6081 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6082 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6083 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6084 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6085 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6086 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6087 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6088 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6089 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6090 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6091 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6092 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6093 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6094 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6095 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6096 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6097 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6098 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6099 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%
6100 (Select Analysis)				Type: 1-100% 2-100% 3-100%	Material: 1-100% 2-100% 3-100%

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.	
Sabrina Gonzalez	Signature
Sabrina Gonzalez	Printed Name



CHAIN OF CUSTODY RECORD

Page 1 of 8

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

For Laboratory Use Only		ATL/COC Ver: 20180321	
Method of Transport	Sample Conditions Upon Receipt	Condition	
<input type="checkbox"/> Client <input type="checkbox"/> FedEx <input type="checkbox"/> GSO <input type="checkbox"/> Other:	<input type="checkbox"/> ATL <input type="checkbox"/> OnTrac	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/> Y <input type="checkbox"/> N
1. CHILLED		2. # OF SAMPLES MATRICES	
3. HEADSPACE (VOL)		4. PRESERVED	
5. CONTAINER INTACT		6. COOLING TEMP. deg. C	
7. COOLING TEMP. deg. F		8. SEaled	

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421		Fax:	
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		Attn: Accounts Payable		Email: acctpayable@leightongroup.com		EDD		QA/QC			
Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Excel		<input type="checkbox"/> Routine	
Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614				EDF		<input type="checkbox"/> Caltrans	
City: Irvine		State: CA		Zip: 92614						Equis		<input type="checkbox"/> Legal	
												<input type="checkbox"/> RWQCB	
												<input type="checkbox"/> Level IV	
												<input type="checkbox"/>	

Project Name: LAUSD - Jordan High School		Quote #:	Sample Description		Special Instructions/Comments:		Requested Analysis		Sample Matrix				Container								
ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time			6015 (DRO)	6010 / 7000 (Tille 22 Metals)	6081 (Organochlorine Pesticides)	8260 / 624 (Volatiles)	Select Analysis	Select Analysis	Select Analysis	Select Solid Matrix	Select Wastewater Matrix	Select Non-aqueous Matrix	Enter Custom Matrix	Turnaround Time (TAT)	Quantity	Remarks	
1	190125 -51	JH-28W-3.0	4-16-19	0926														3	1	4	Preservative: 1-HCl; 2-HNO ₃ ; 3-H ₂ SO ₄ ; 4-H ₂ O; 5-H ₂ SO ₄ ; 6-H ₂ O; 7-H ₂ O; 8-H ₂ O; 9-H ₂ O; 10-H ₂ O; 11-H ₂ O; 12-H ₂ O; 13-H ₂ O; 14-H ₂ O; 15-H ₂ O; 16-H ₂ O; 17-H ₂ O; 18-H ₂ O; 19-H ₂ O; 20-H ₂ O; 21-H ₂ O; 22-H ₂ O; 23-H ₂ O; 24-H ₂ O; 25-H ₂ O; 26-H ₂ O; 27-H ₂ O; 28-H ₂ O; 29-H ₂ O; 30-H ₂ O; 31-H ₂ O; 32-H ₂ O; 33-H ₂ O; 34-H ₂ O; 35-H ₂ O; 36-H ₂ O; 37-H ₂ O; 38-H ₂ O; 39-H ₂ O; 40-H ₂ O; 41-H ₂ O; 42-H ₂ O; 43-H ₂ O; 44-H ₂ O; 45-H ₂ O; 46-H ₂ O; 47-H ₂ O; 48-H ₂ O; 49-H ₂ O; 50-H ₂ O; 51-H ₂ O; 52-H ₂ O; 53-H ₂ O; 54-H ₂ O; 55-H ₂ O; 56-H ₂ O; 57-H ₂ O; 58-H ₂ O; 59-H ₂ O; 60-H ₂ O; 61-H ₂ O; 62-H ₂ O; 63-H ₂ O; 64-H ₂ O; 65-H ₂ O; 66-H ₂ O; 67-H ₂ O; 68-H ₂ O; 69-H ₂ O; 70-H ₂ O; 71-H ₂ O; 72-H ₂ O; 73-H ₂ O; 74-H ₂ O; 75-H ₂ O; 76-H ₂ O; 77-H ₂ O; 78-H ₂ O; 79-H ₂ O; 80-H ₂ O; 81-H ₂ O; 82-H ₂ O; 83-H ₂ O; 84-H ₂ O; 85-H ₂ O; 86-H ₂ O; 87-H ₂ O; 88-H ₂ O; 89-H ₂ O; 90-H ₂ O; 91-H ₂ O; 92-H ₂ O; 93-H ₂ O; 94-H ₂ O; 95-H ₂ O; 96-H ₂ O; 97-H ₂ O; 98-H ₂ O; 99-H ₂ O; 100-H ₂ O; 101-H ₂ O; 102-H ₂ O; 103-H ₂ O; 104-H ₂ O; 105-H ₂ O; 106-H ₂ O; 107-H ₂ O; 108-H ₂ O; 109-H ₂ O; 110-H ₂ O; 111-H ₂ O; 112-H ₂ O; 113-H ₂ O; 114-H ₂ O; 115-H ₂ O; 116-H ₂ O; 117-H ₂ O; 118-H ₂ O; 119-H ₂ O; 120-H ₂ O; 121-H ₂ O; 122-H ₂ O; 123-H ₂ O; 124-H ₂ O; 125-H ₂ O; 126-H ₂ O; 127-H ₂ O; 128-H ₂ O; 129-H ₂ O; 130-H ₂ O; 131-H ₂ O; 132-H ₂ O; 133-H ₂ O; 134-H ₂ O; 135-H ₂ O; 136-H ₂ O; 137-H ₂ O; 138-H ₂ O; 139-H ₂ O; 140-H ₂ O; 141-H ₂ O; 142-H ₂ O; 143-H ₂ O; 144-H ₂ O; 145-H ₂ O; 146-H ₂ O; 147-H ₂ O; 148-H ₂ O; 149-H ₂ O; 150-H ₂ O; 151-H ₂ O; 152-H ₂ O; 153-H ₂ O; 154-H ₂ O; 155-H ₂ O; 156-H ₂ O; 157-H ₂ O; 158-H ₂ O; 159-H ₂ O; 160-H ₂ O; 161-H ₂ O; 162-H ₂ O; 163-H ₂ O; 164-H ₂ O; 165-H ₂ O; 166-H ₂ O; 167-H ₂ O; 168-H ₂ O; 169-H ₂ O; 170-H ₂ O; 171-H ₂ O; 172-H ₂ O; 173-H ₂ O; 174-H ₂ O; 175-H ₂ O; 176-H ₂ O; 177-H ₂ O; 178-H ₂ O; 179-H ₂ O; 180-H ₂ O; 181-H ₂ O; 182-H ₂ O; 183-H ₂ O; 184-H ₂ O; 185-H ₂ O; 186-H ₂ O; 187-H ₂ O; 188-H ₂ O; 189-H ₂ O; 190-H ₂ O; 191-H ₂ O; 192-H ₂ O; 193-H ₂ O; 194-H ₂ O; 195-H ₂ O; 196-H ₂ O; 197-H ₂ O; 198-H ₂ O; 199-H ₂ O; 200-H ₂ O; 201-H ₂ O; 202-H ₂ O; 203-H ₂ O; 204-H ₂ O; 205-H ₂ O; 206-H ₂ O; 207-H ₂ O; 208-H ₂ O; 209-H ₂ O; 210-H ₂ O; 211-H ₂ O; 212-H ₂ O; 213-H ₂ O; 214-H ₂ O; 215-H ₂ O; 216-H ₂ O; 217-H ₂ O; 218-H ₂ O; 219-H ₂ O; 220-H ₂ O; 221-H ₂ O; 222-H ₂ O; 223-H ₂ O; 224-H ₂ O; 225-H ₂ O; 226-H ₂ O; 227-H ₂ O; 228-H ₂ O; 229-H ₂ O; 230-H ₂ O; 231-H ₂ O; 232-H ₂ O; 233-H ₂ O; 234-H ₂ O; 235-H ₂ O; 236-H ₂ O; 237-H ₂ O; 238-H ₂ O; 239-H ₂ O; 240-H ₂ O; 241-H ₂ O; 242-H ₂ O; 243-H ₂ O; 244-H ₂ O; 245-H ₂ O; 246-H ₂ O; 247-H ₂ O; 248-H ₂ O; 249-H ₂ O; 250-H ₂ O; 251-H ₂ O; 252-H ₂ O; 253-H ₂ O; 254-H ₂ O; 255-H ₂ O; 256-H ₂ O; 257-H ₂ O; 258-H ₂ O; 259-H ₂ O; 260-H ₂ O; 261-H ₂ O; 262-H ₂ O; 263-H ₂ O; 264-H ₂ O; 265-H ₂ O; 266-H ₂ O; 267-H ₂ O; 268-H ₂ O; 269-H ₂ O; 270-H ₂ O; 271-H ₂ O; 272-H ₂ O; 273-H ₂ O; 274-H ₂ O; 275-H ₂ O; 276-H ₂ O; 277-H ₂ O; 278-H ₂ O; 279-H ₂ O; 280-H ₂ O; 281-H ₂ O; 282-H ₂ O; 283-H ₂ O; 284-H ₂ O; 285-H ₂ O; 286-H ₂ O; 287-H ₂ O; 288-H ₂ O; 289-H ₂ O; 290-H ₂ O; 291-H ₂ O; 292-H ₂ O; 293-H ₂ O; 294-H ₂ O; 295-H ₂ O; 296-H ₂ O; 297-H ₂ O; 298-H ₂ O; 299-H ₂ O; 300-H ₂ O; 301-H ₂ O; 302-H ₂ O; 303-H ₂ O; 304-H ₂ O; 305-H ₂ O; 306-H ₂ O; 307-H ₂ O; 308-H ₂ O; 309-H ₂ O; 310-H ₂ O; 311-H ₂ O; 312-H ₂ O; 313-H ₂ O; 314-H ₂ O; 315-H ₂ O; 316-H ₂ O; 317-H ₂ O; 318-H ₂ O; 319-H ₂ O; 320-H ₂ O; 321-H ₂ O; 322-H ₂ O; 323-H ₂ O; 324-H ₂ O; 325-H ₂ O; 326-H ₂ O; 327-H ₂ O; 328-H ₂ O; 329-H ₂ O; 330-H ₂ O; 331-H ₂ O; 332-H ₂ O; 333-H ₂ O; 334-H ₂ O; 335-H ₂ O; 336-H ₂ O; 337-H ₂ O; 338-H ₂ O; 339-H ₂ O; 340-H ₂ O; 341-H ₂ O; 342-H ₂ O; 343-H ₂ O; 344-H ₂ O; 345-H ₂ O; 346-H ₂ O; 347-H ₂ O; 348-H ₂ O; 349-H ₂ O; 350-H ₂ O; 351-H ₂ O; 352-H ₂ O; 353-H ₂ O; 354-H ₂ O; 355-H ₂ O; 356-H ₂ O; 357-H ₂ O; 358-H ₂ O; 359-H ₂ O; 360-H ₂ O; 361-H ₂ O; 362-H ₂ O; 363-H ₂ O; 364-H ₂ O; 365-H ₂ O; 366-H ₂ O; 367-H ₂ O; 368-H ₂ O; 369-H ₂ O; 370-H ₂ O; 371-H ₂ O; 372-H ₂ O; 373-H ₂ O; 374-H ₂ O; 375-H ₂ O; 376-H ₂ O; 377-H ₂ O; 378-H ₂ O; 379-H ₂ O; 380-H ₂ O; 381-H ₂ O; 382-H ₂ O; 383-H ₂ O; 384-H ₂ O; 385-H ₂ O; 386-H ₂ O; 387-H ₂ O; 388-H ₂ O; 389-H ₂ O; 390-H ₂ O; 391-H ₂ O; 392-H ₂ O; 393-H ₂ O; 394-H ₂ O; 395-H ₂ O; 396-H ₂ O; 397-H ₂ O; 398-H ₂ O; 399-H ₂ O; 400-H ₂ O; 401-H ₂ O; 402-H ₂ O; 403-H ₂ O; 404-H ₂ O; 405-H ₂ O; 406-H ₂ O; 407-H ₂ O; 408-H ₂ O; 409-H ₂ O; 410-H ₂ O; 411-H ₂ O; 412-H ₂ O; 413-H ₂ O; 414-H ₂ O; 415-H ₂ O; 416-H ₂ O; 417-H ₂ O; 418-H ₂ O; 419-H ₂ O; 420-H ₂ O; 421-H ₂ O; 422-H ₂ O; 423-H ₂ O; 424-H ₂ O; 425-H ₂ O; 426-H ₂ O; 427-H ₂ O; 428-H ₂ O; 429-H ₂ O; 430-H ₂ O; 431-H ₂ O; 432-H ₂ O; 433-H ₂ O; 434-H ₂ O; 435-H ₂ O; 436-H ₂ O; 437-H ₂ O; 438-H ₂ O; 439-H ₂ O; 440-H ₂ O; 441-H ₂ O; 442-H ₂ O; 443-H ₂ O; 444-H ₂ O; 445-H ₂ O; 446-H ₂ O; 447-H ₂ O; 448-H ₂ O; 449-H ₂ O; 450-H ₂ O; 451-H ₂ O; 452-H ₂ O; 453-H ₂ O; 454-H ₂ O; 455-H ₂ O; 456-H ₂ O; 457-H ₂ O; 458-H ₂ O; 459-H ₂ O; 460-H ₂ O; 461-H ₂ O; 462-H ₂ O; 463-H ₂ O; 464-H ₂ O; 465-H ₂ O; 466-H ₂ O; 467-H ₂ O; 468-H ₂ O; 469-H ₂ O; 470-H ₂ O; 471-H ₂ O; 472-H ₂ O; 473-H ₂ O; 474-H ₂ O; 475-H ₂ O; 476-H ₂ O; 477-H ₂ O; 478-H ₂ O; 479-H ₂ O; 480-H ₂ O; 481-H ₂ O; 482-H ₂ O; 483-H ₂ O; 484-H ₂ O; 485-H ₂ O; 486-H ₂ O; 487-H ₂ O; 488-H ₂ O; 489-H ₂ O; 490-H ₂ O; 491-H ₂ O; 492-H ₂ O; 493-H ₂ O; 494-H ₂ O; 495-H ₂ O; 496-H ₂ O; 497-H ₂ O; 498-H ₂ O; 499-H ₂ O; 500-H ₂ O; 501-H ₂ O; 502-H ₂ O; 503-H ₂ O; 504-H ₂ O; 505-H ₂ O; 506-H ₂ O; 507-H ₂ O; 508-H ₂ O; 509-H ₂ O; 510-H ₂ O; 511-H ₂ O; 512-H ₂ O; 513-H ₂ O; 514-H ₂ O; 515-H ₂ O; 516-H ₂ O; 517-H ₂ O; 518-H ₂ O; 519-H ₂ O; 520-H ₂ O; 521-H ₂ O; 522-H ₂ O; 523-H ₂ O; 524-H ₂ O; 525-H ₂ O; 526-H ₂ O; 527-H ₂ O; 528-H ₂ O; 529-H ₂ O; 530-H ₂ O; 531-H ₂ O; 532-H ₂ O; 533-H ₂ O; 534-H ₂ O; 535-H ₂ O; 536-H ₂ O; 537-H ₂ O; 538-H ₂ O; 539-H ₂ O; 540-H ₂ O; 541-H ₂ O; 542-H ₂ O; 543-H ₂ O; 544-H ₂ O; 545-H ₂ O; 546-H ₂ O; 547-H ₂ O; 548-H ₂ O; 549-H ₂ O; 550-H ₂ O; 551-H ₂ O; 552-H ₂ O; 553-H ₂ O; 554-H ₂ O; 555-H ₂ O; 556-H ₂ O; 557-H ₂ O; 558-H ₂ O; 559-H ₂ O; 560-H ₂ O; 561-H ₂ O; 562-H ₂ O; 563-H ₂ O; 564-H ₂ O; 565-H ₂ O; 566-H ₂ O; 567-H ₂ O; 568-H ₂ O; 569-H ₂ O; 570-H ₂ O; 571-H ₂ O; 572-H ₂ O; 573-H ₂ O; 574-H ₂ O; 575-H ₂ O; 576-H ₂ O; 577-H ₂ O; 578-H ₂ O; 579-H ₂ O; 580-H ₂ O; 581-H ₂ O; 582-H ₂ O; 583-H ₂ O; 584-H ₂ O; 585-H ₂ O; 586-H ₂ O; 587-H ₂ O; 588-H ₂ O; 589-H ₂ O; 590-H ₂ O; 591-H ₂ O; 592-H ₂ O; 593-H ₂ O; 594-H ₂ O; 595-H ₂ O; 596-H ₂ O; 597-H ₂ O; 598-H ₂ O; 599-H ₂ O; 600-H ₂ O; 601-H ₂ O; 602-H ₂ O; 603-H ₂ O; 604-H ₂ O; 605-H ₂ O; 606-H ₂ O; 607-H ₂ O; 608-H ₂ O; 609-H ₂ O; 610-H ₂ O; 611-H ₂ O; 612-H ₂ O; 613-H ₂ O; 614-H ₂ O; 615-H ₂ O; 616-H ₂ O; 617-H ₂ O; 618-H ₂ O; 619-H ₂ O; 620-H ₂ O; 621-H ₂ O; 622-H ₂ O; 623-H ₂ O; 624-H ₂ O; 625-H ₂ O; 626-H ₂ O; 627-H ₂ O; 628-H ₂ O; 629-H ₂ O; 630-H ₂ O; 631-H ₂ O; 632-H ₂ O; 633-H ₂ O; 634-H ₂ O; 635-H ₂ O; 636-H ₂ O; 637-H ₂ O; 638-H ₂ O; 639-H ₂ O; 640-H ₂ O; 641-H ₂ O; 642-H ₂ O; 643-H ₂ O; 644-H ₂ O; 645-H ₂ O; 646-H ₂ O; 647-H ₂ O; 648-H ₂ O; 649-H ₂ O; 650-H ₂ O; 651-H ₂ O; 652-H ₂ O; 653-H ₂ O; 654-H ₂ O; 655-H ₂ O; 656-H ₂ O; 657-H ₂ O; 658-H ₂ O; 659-H ₂ O; 660-H ₂ O; 661-H ₂ O; 662-H ₂ O; 663-H ₂ O; 664-H ₂ O; 665-H ₂ O; 666-H ₂ O; 667-H ₂ O; 668-H ₂ O; 669-H ₂ O; 670-H ₂ O; 671-H ₂ O; 672-H ₂ O; 673-H ₂ O; 674-H ₂ O; 675-H ₂ O; 676-H ₂ O; 677-H ₂ O; 678-H ₂ O; 679-H ₂ O; 680-H ₂ O; 681-H ₂ O; 682-H ₂ O; 683-H ₂ O; 684-H ₂ O; 685-H ₂ O; 686-H ₂ O; 687-H ₂ O; 688-H ₂ O; 689-H ₂ O; 690-H ₂ O; 691-H ₂ O; 692-H ₂ O; 693-H ₂ O; 694-H ₂ O; 695-H ₂ O; 696-H ₂ O; 697-H ₂ O; 698-H ₂ O; 699-H ₂ O; 700-H ₂ O; 701-H ₂ O; 702-H ₂ O; 703-H ₂ O; 704-H ₂ O; 705-H ₂ O; 706-H ₂ O; 707-H ₂ O; 708-H ₂ O; 709-H ₂ O; 710-H ₂ O; 711-H ₂ O; 712-H ₂ O; 713-H ₂ O; 714-H ₂ O; 715-H ₂ O; 716-H ₂ O; 717-H ₂ O; 718-H ₂ O; 719-H ₂ O; 720-H ₂ O; 721-H ₂ O; 722-H ₂ O; 723-H ₂ O; 724-H ₂ O; 725-H ₂ O; 726-H ₂ O; 727-H ₂ O; 728-H ₂ O; 729-H ₂ O; 730-H ₂ O; 731-H ₂ O; 732-H ₂ O; 733-H ₂ O; 734-H ₂ O; 735-H ₂ O; 736-H ₂ O; 737-H ₂ O; 738-H ₂ O; 739-H ₂ O; 740-H ₂ O; 741-H ₂ O; 742-H ₂ O; 743-H ₂ O; 744-H ₂ O; 745-H ₂ O; 746-H ₂ O; 747-H ₂ O; 748-H ₂ O; 749-H ₂ O; 750-H ₂ O; 751-H ₂ O; 752-H ₂ O; 753-H ₂ O; 754-H ₂ O; 755-H ₂ O; 756-H ₂ O; 757-H ₂ O; 758-H ₂ O; 759-H ₂ O; 760-H ₂ O; 761-H ₂ O; 762-H ₂ O; 763-H ₂ O; 764-H ₂ O; 765-H ₂ O; 766-H ₂ O; 767-H ₂ O; 768-H ₂ O; 769-H ₂ O; 770-H ₂ O; 771-H ₂ O; 772-H ₂ O; 773-H ₂ O; 774-H ₂ O; 775-H ₂ O; 776-H ₂ O; 777-H ₂ O; 778-H ₂ O; 779-H ₂ O; 780-H ₂ O; 781-H ₂ O; 782-H ₂ O; 783-H ₂ O; 784-H ₂ O; 785-H ₂ O; 786-H ₂ O; 787-H ₂ O; 788-H ₂ O; 789-H ₂ O; 790-H ₂ O; 791-H ₂ O; 792-H ₂ O; 793-H ₂ O; 794-H ₂ O; 795-H ₂ O; 796-H ₂ O; 797-H ₂ O; 798-H ₂ O; 799-H ₂ O; 800-H ₂ O; 801-H ₂ O; 802-H ₂ O; 803-H ₂ O; 804-H ₂ O; 805-H ₂ O; 806-H ₂ O; 807-H ₂ O; 808-H ₂ O; 809-H ₂ O; 810-H ₂ O; 811-H ₂ O; 812-H ₂ O; 813-H ₂ O; 814-H ₂ O; 815-H ₂ O; 816-H ₂ O; 817-H ₂ O; 818-H ₂ O; 819-H ₂ O; 820-H ₂ O; 821-H ₂ O; 822-H ₂ O; 823-H ₂ O; 824-H ₂ O; 825-H ₂ O; 826-H ₂ O; 827-H ₂ O; 828-H ₂ O; 829-H ₂ O; 830-H<

Dominic Mata

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Monday, April 22, 2019 1:03 PM
To: Dominic Mata
Cc: Robert Lovdahl
Subject: LAUSD Jordan HS

Dominic,

Please analyze the following samples that have been placed on hold for the LAUSD Jordan High School project:

1. JH-4N-3.0 analyze for **As by 6020**
2. SSI-65-3.0 analyze for **As by 6020**
3. SSI-67-3.0 analyze for **As by 6020**

Analyze these samples on a 3-day TAT.

In addition, there were eight samples listed in WO# 1901525 with the prefix "SSL". Please change this prefix to "SSI".

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc

17781 Cowan, Irvine, CA 92614

(949) 681-4264 – Direct

(949) 880-4439 – Cell

Environmental | Geotechnical | Materials Testing

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April 19, 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 : 1901527
Client Reference : LAUSD-Jordan HS, 11640

Enclosed are the results for sample(s) received on April 16, 2019 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 "E Rodriguez", written in a cursive style.

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-Jordan HS, 11640
Report To : Ross Currency
Reported : 04/19/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Drum1	1901527-01	Soil	4/16/19 10:05	4/16/19 12:28

DETECTION SUMMARY

Client Sample ID Drum1

Lab ID: 1901527-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	6.9	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Barium	95	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Chromium	14	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Cobalt	7.8	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Copper	32	2.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Lead	13	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Nickel	10	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Vanadium	31	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Zinc	67	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	260	25	25	B9D0887	04/18/2019	04/19/19 10:04	
ORO	640	25	25	B9D0887	04/18/2019	04/19/19 10:04	

Organochlorine Pesticides by EPA 8081

Analyst: KD/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	52	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
4,4'-DDE	110	20	10	B9D0881	04/18/2019	04/18/19 18:52	
4,4'-DDT [2C]	24	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
alpha-Chlordane	1.4	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Chlordane [2C]	14	8.5	1	B9D0881	04/18/2019	04/18/19 18:42	
Dieldrin [2C]	8.3	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
gamma-Chlordane [2C]	1.7	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	



Certificate of Analysis

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

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Currency
Reported : 04/19/2019

Client Sample ID Drum1

Lab ID: 1901527-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Arsenic	6.9	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Barium	95	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Beryllium	ND	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Cadmium	ND	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Chromium	14	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Cobalt	7.8	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Copper	32	2.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Lead	13	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Molybdenum	ND	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Nickel	10	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Selenium	ND	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Silver	ND	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Thallium	ND	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Vanadium	31	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	
Zinc	67	1.0	1	B9D0854	04/18/2019	04/18/19 14:29	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	1	B9D0836	04/18/2019	04/18/19 13:00	

Gasoline Range Organics by EPA 8015B (Modified)

Analyst: JBL

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.0	1	B9D0814	04/17/2019	04/17/19 19:55	
Surrogate: 4-Bromofluorobenzene	99.1 %	45 - 149		B9D0814	04/17/2019	04/17/19 19:55	

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	260	25	25	B9D0887	04/18/2019	04/19/19 10:04	
ORO	640	25	25	B9D0887	04/18/2019	04/19/19 10:04	



Certificate of Analysis

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

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Currency
Reported : 04/19/2019

Client Sample ID Drum1

Lab ID: 1901527-01

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: p-Terphenyl	0%	34 - 158		B9D0887	04/18/2019	04/19/19 10:04	S4

Organochlorine Pesticides by EPA 8081

Analyst: KD/

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	52	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
4,4'-DDE	110	20	10	B9D0881	04/18/2019	04/18/19 18:52	
4,4'-DDT [2C]	24	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Aldrin	ND	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
alpha-BHC	ND	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
alpha-Chlordane	1.4	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
beta-BHC	ND	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Chlordane [2C]	14	8.5	1	B9D0881	04/18/2019	04/18/19 18:42	
delta-BHC	ND	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Dieldrin [2C]	8.3	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Endosulfan I	ND	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Endosulfan II	ND	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Endosulfan sulfate	ND	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Endrin	ND	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Endrin aldehyde	ND	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Endrin ketone	ND	2.0	1	B9D0881	04/18/2019	04/18/19 18:42	
gamma-BHC	ND	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
gamma-Chlordane [2C]	1.7	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Heptachlor	ND	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Heptachlor epoxide	ND	1.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Methoxychlor	ND	5.0	1	B9D0881	04/18/2019	04/18/19 18:42	
Toxaphene	ND	50	1	B9D0881	04/18/2019	04/18/19 18:42	
Surrogate: Decachlorobiphenyl	76.8 %	32 - 91		B9D0881	04/18/2019	04/18/19 18:52	
Surrogate: Decachlorobiphenyl	32.4 %	32 - 91		B9D0881	04/18/2019	04/18/19 18:42	
Surrogate: Tetrachloro-m-xylene	39.1 %	38 - 93		B9D0881	04/18/2019	04/18/19 18:52	
Surrogate: Tetrachloro-m-xylene	40.4 %	38 - 93		B9D0881	04/18/2019	04/18/19 18:42	



Certificate of Analysis

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

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Currency
Reported : 04/19/2019

Client Sample ID Drum1

Lab ID: 1901527-01

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,1,1-Trichloroethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,1,2-Trichloroethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,1-Dichloroethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,1-Dichloroethene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,1-Dichloropropene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2,3-Trichloropropane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2,3-Trichlorobenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2,4-Trichlorobenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2,4-Trimethylbenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2-Dibromo-3-chloropropane	ND	10	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2-Dibromoethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2-Dichlorobenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2-Dichloroethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,2-Dichloropropane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,3,5-Trimethylbenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,3-Dichlorobenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,3-Dichloropropane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
1,4-Dichlorobenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
2,2-Dichloropropane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
2-Chlorotoluene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
4-Chlorotoluene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
4-Isopropyltoluene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Benzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Bromobenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Bromochloromethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Bromodichloromethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Bromoform	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Bromomethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Carbon disulfide	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Carbon tetrachloride	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Chlorobenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Chloroethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Chloroform	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Chloromethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
cis-1,2-Dichloroethene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Currency
Reported : 04/19/2019

Client Sample ID Drum1

Lab ID: 1901527-01

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Di-isopropyl ether	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Dibromochloromethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Dibromomethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Dichlorodifluoromethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Ethyl Acetate	ND	50	1	B9D0901	04/19/2019	04/19/19 09:59	
Ethyl Ether	ND	50	1	B9D0901	04/19/2019	04/19/19 09:59	
Ethyl tert-butyl ether	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Ethylbenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Freon-113	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Hexachlorobutadiene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Isopropylbenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
m,p-Xylene	ND	10	1	B9D0901	04/19/2019	04/19/19 09:59	
Methylene chloride	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
MTBE	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
n-Butylbenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
n-Propylbenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Naphthalene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
o-Xylene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
sec-Butylbenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Styrene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
tert-Amyl methyl ether	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
tert-Butanol	ND	100	1	B9D0901	04/19/2019	04/19/19 09:59	
tert-Butylbenzene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Tetrachloroethene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Toluene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
trans-1,2-Dichloroethene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
trans-1,3-Dichloropropene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Trichloroethene	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Trichlorofluoromethane	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	
Vinyl acetate	ND	50	1	B9D0901	04/19/2019	04/19/19 09:59	
Vinyl chloride	ND	5.0	1	B9D0901	04/19/2019	04/19/19 09:59	

<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.2 %</i>	<i>60 - 145</i>	B9D0901	04/19/2019	<i>04/19/19 09:59</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>89.1 %</i>	<i>68 - 121</i>	B9D0901	04/19/2019	<i>04/19/19 09:59</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>99.2 %</i>	<i>65 - 137</i>	B9D0901	04/19/2019	<i>04/19/19 09:59</i>
<i>Surrogate: Toluene-d8</i>	<i>96.1 %</i>	<i>82 - 119</i>	B9D0901	04/19/2019	<i>04/19/19 09:59</i>



Certificate of Analysis

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

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/19/2019

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - 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 B9D0854 - EPA 3050B_S

Blank (B9D0854-BLK1)

Prepared: 4/18/2019 Analyzed: 4/18/2019

Antimony	ND	2.0	0.51
Arsenic	ND	1.0	0.12
Barium	ND	1.0	0.12
Beryllium	ND	1.0	0.03
Cadmium	ND	1.0	0.14
Chromium	ND	1.0	0.26
Cobalt	ND	1.0	0.07
Copper	ND	2.0	0.19
Lead	ND	1.0	0.18
Molybdenum	ND	1.0	0.12
Nickel	ND	1.0	0.18
Selenium	ND	1.0	0.40
Silver	ND	1.0	0.12
Thallium	ND	1.0	0.38
Vanadium	ND	1.0	0.06
Zinc	ND	1.0	0.15

LCS (B9D0854-BS1)

Prepared: 4/18/2019 Analyzed: 4/18/2019

Antimony	46.4985	2.0	0.51	50.0000	93.0	80 - 120
Arsenic	43.7011	1.0	0.12	50.0000	87.4	80 - 120
Barium	48.5992	1.0	0.12	50.0000	97.2	80 - 120
Beryllium	46.5075	1.0	0.03	50.0000	93.0	80 - 120
Cadmium	44.8625	1.0	0.14	50.0000	89.7	80 - 120
Chromium	48.7848	1.0	0.26	50.0000	97.6	80 - 120
Cobalt	48.2446	1.0	0.07	50.0000	96.5	80 - 120
Copper	49.4948	2.0	0.19	50.0000	99.0	80 - 120
Lead	45.8713	1.0	0.18	50.0000	91.7	80 - 120
Molybdenum	47.9527	1.0	0.12	50.0000	95.9	80 - 120
Nickel	47.1604	1.0	0.18	50.0000	94.3	80 - 120
Selenium	43.2322	1.0	0.40	50.0000	86.5	80 - 120
Silver	43.1333	1.0	0.12	50.0000	86.3	80 - 120
Thallium	46.7760	1.0	0.38	50.0000	93.6	80 - 120
Vanadium	48.3550	1.0	0.06	50.0000	96.7	80 - 120
Zinc	43.9787	1.0	0.15	50.0000	88.0	80 - 120

Duplicate (B9D0854-DUP1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Antimony	ND	2.0	0.51	ND	NR	20
Arsenic	8.33554	1.0	0.12	6.87342	19.2	20
Barium	89.6194	1.0	0.12	95.2073	6.05	20
Beryllium	ND	1.0	0.03	ND	NR	20



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/19/2019

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

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 B9D0854 - EPA 3050B_S (continued)

Duplicate (B9D0854-DUP1) - Continued

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Cadmium	0.343640	1.0	0.14		0.357896			4.06	20	
Chromium	13.1881	1.0	0.26		13.6531			3.46	20	
Cobalt	7.06224	1.0	0.07		7.76992			9.54	20	
Copper	23.4372	2.0	0.19		32.3380			31.9	20	R
Lead	15.1229	1.0	0.18		13.1316			14.1	20	
Molybdenum	ND	1.0	0.12		ND			NR	20	
Nickel	10.6152	1.0	0.18		10.3736			2.30	20	
Selenium	ND	1.0	0.40		ND			NR	20	
Silver	ND	1.0	0.12		ND			NR	20	
Thallium	ND	1.0	0.38		ND			NR	20	
Vanadium	28.2210	1.0	0.06		30.9210			9.13	20	
Zinc	59.0916	1.0	0.15		66.5420			11.9	20	

Matrix Spike (B9D0854-MS1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Antimony	65.3207	2.0	0.51	100.000	ND	65.3	21 - 102			
Arsenic	94.7776	1.0	0.12	100.000	6.87342	87.9	49 - 96			
Barium	182.278	1.0	0.12	100.000	95.2073	87.1	26 - 121			
Beryllium	83.1553	1.0	0.03	100.000	ND	83.2	51 - 96			
Cadmium	79.0196	1.0	0.14	100.000	0.357896	78.7	46 - 93			
Chromium	104.960	1.0	0.26	100.000	13.6531	91.3	44 - 107			
Cobalt	92.1842	1.0	0.07	100.000	7.76992	84.4	49 - 100			
Copper	124.350	2.0	0.19	100.000	32.3380	92.0	46 - 115			
Lead	97.1710	1.0	0.18	100.000	13.1316	84.0	29 - 126			
Molybdenum	88.2400	1.0	0.12	100.000	ND	88.2	48 - 99			
Nickel	94.1660	1.0	0.18	100.000	10.3736	83.8	37 - 108			
Selenium	84.7925	1.0	0.40	100.000	ND	84.8	48 - 95			
Silver	95.3840	1.0	0.12	100.000	ND	95.4	53 - 99			
Thallium	71.1070	1.0	0.38	100.000	ND	71.1	38 - 93			
Vanadium	121.877	1.0	0.06	100.000	30.9210	91.0	48 - 104			
Zinc	138.664	1.0	0.15	100.000	66.5420	72.1	24 - 111			

Matrix Spike Dup (B9D0854-MSD1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Antimony	60.4747	2.0	0.51	100.000	ND	60.5	21 - 102	7.70	20	
Arsenic	88.5696	1.0	0.12	100.000	6.87342	81.7	49 - 96	6.77	20	
Barium	184.008	1.0	0.12	100.000	95.2073	88.8	26 - 121	0.945	20	
Beryllium	80.2808	1.0	0.03	100.000	ND	80.3	51 - 96	3.52	20	
Cadmium	76.2053	1.0	0.14	100.000	0.357896	75.8	46 - 93	3.63	20	
Chromium	99.2027	1.0	0.26	100.000	13.6531	85.5	44 - 107	5.64	20	
Cobalt	87.6360	1.0	0.07	100.000	7.76992	79.9	49 - 100	5.06	20	
Copper	118.579	2.0	0.19	100.000	32.3380	86.2	46 - 115	4.75	20	
Lead	90.7086	1.0	0.18	100.000	13.1316	77.6	29 - 126	6.88	20	
Molybdenum	83.7716	1.0	0.12	100.000	ND	83.8	48 - 99	5.20	20	



Certificate of Analysis

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Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/19/2019

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

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 B9D0854 - EPA 3050B_S (continued)

Matrix Spike Dup (B9D0854-MSD1) - Continued

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Nickel	89.1044	1.0	0.18	100.000	10.3736	78.7	37 - 108	5.52	20	
Selenium	80.1322	1.0	0.40	100.000	ND	80.1	48 - 95	5.65	20	
Silver	92.8862	1.0	0.12	100.000	ND	92.9	53 - 99	2.65	20	
Thallium	66.8225	1.0	0.38	100.000	ND	66.8	38 - 93	6.21	20	
Vanadium	119.703	1.0	0.06	100.000	30.9210	88.8	48 - 104	1.80	20	
Zinc	127.536	1.0	0.15	100.000	66.5420	61.0	24 - 111	8.36	20	



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/19/2019

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 Limits	RPD	RPD Limit	Notes
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Batch B9D0836 - EPA 7471_S

Blank (B9D0836-BLK1)

Prepared: 4/18/2019 Analyzed: 4/18/2019

Mercury ND 0.10 0.007

LCS (B9D0836-BS1)

Prepared: 4/18/2019 Analyzed: 4/18/2019

Mercury 0.426660 0.10 0.007 0.416667 102 80 - 120

Duplicate (B9D0836-DUP1)

Source: 1901443-AZRE1

Prepared: 4/18/2019 Analyzed: 4/18/2019

Mercury 7.49026 1.0 0.07 7.28696 2.75 20 D6

Matrix Spike (B9D0836-MS1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Mercury 0.529070 0.10 0.007 0.416667 0.062587 112 70 - 130

Matrix Spike Dup (B9D0836-MSD1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Mercury 0.531295 0.10 0.007 0.416667 0.062587 112 70 - 130 0.420 20



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Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/19/2019

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0836 - EPA 7471_S

Post Spike (B9D0836-PS1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Mercury	0.003014		2.00000E-3	0.000751	113	85 - 115			
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Certificate of Analysis

Leighton Consulting, Inc.
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Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/19/2019

Gasoline Range Organics by EPA 8015B (Modified) - 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 B9D0814 - GCVOA_S

Blank (B9D0814-BLK1)

Prepared: 4/17/2019 Analyzed: 4/17/2019

Gasoline Range Organics	ND	1.0	0.20						
Surrogate: 4-Bromofluorobenzene	0.1966			0.200000		98.3	45 - 149		

LCS (B9D0814-BS1)

Prepared: 4/17/2019 Analyzed: 4/17/2019

Gasoline Range Organics	4.93200	1.0	0.20	5.00000		98.6	70 - 130		
Surrogate: 4-Bromofluorobenzene	0.2108			0.200000		105	45 - 149		

Duplicate (B9D0814-DUP1)

Source: 1901527-01

Prepared: 4/17/2019 Analyzed: 4/17/2019

Gasoline Range Organics	ND	1.0	0.20		ND			20	
Surrogate: 4-Bromofluorobenzene	0.2073			0.200000		104	45 - 149		

Matrix Spike (B9D0814-MS1)

Source: 1901541-01

Prepared: 4/17/2019 Analyzed: 4/17/2019

Gasoline Range Organics	4.29000	1.0	0.20	5.00000	ND	85.8	24 - 129		
Surrogate: 4-Bromofluorobenzene	0.2060			0.200000		103	45 - 149		

Matrix Spike (B9D0814-MS2)

Source: 1901542-01

Prepared: 4/17/2019 Analyzed: 4/17/2019

Gasoline Range Organics	4.50000	1.0	0.20	5.00000	ND	90.0	24 - 129		
Surrogate: 4-Bromofluorobenzene	0.2005			0.200000		100	45 - 149		

Matrix Spike Dup (B9D0814-MSD1)

Source: 1901541-01

Prepared: 4/17/2019 Analyzed: 4/17/2019

Gasoline Range Organics	4.15300	1.0	0.20	5.00000	ND	83.1	24 - 129	3.25	20
Surrogate: 4-Bromofluorobenzene	0.1996			0.200000		99.8	45 - 149		

Matrix Spike Dup (B9D0814-MSD2)

Source: 1901542-01

Prepared: 4/17/2019 Analyzed: 4/17/2019

Gasoline Range Organics	4.45100	1.0	0.20	5.00000	ND	89.0	24 - 129	1.09	20
Surrogate: 4-Bromofluorobenzene	0.2053			0.200000		103	45 - 149		



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/19/2019

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 B9D0887 - GCSEMI_DRO_LL_S

Blank (B9D0887-BLK1)

Prepared: 4/18/2019 Analyzed: 4/18/2019

DRO	ND	1.0	1.0						
ORO	ND	1.0	1.0						

Surrogate: <i>p</i> -Terphenyl	2.074			2.66667		77.8	34 - 158		
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LCS (B9D0887-BS1)

Prepared: 4/18/2019 Analyzed: 4/18/2019

DRO	28.2353	1.0	1.0	33.3333		84.7	47 - 152		
Surrogate: <i>p</i> -Terphenyl	2.189			2.66667		82.1	34 - 158		

Duplicate (B9D0887-DUP1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/19/2019

DRO	234.950	25	25		261.183		10.6	20	
Surrogate: <i>p</i> -Terphenyl	0.000			2.66667		NR	34 - 158		S4

Matrix Spike (B9D0887-MS1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

DRO	285.467	50	50	33.3333	261.183	72.9	34 - 130		
Surrogate: <i>p</i> -Terphenyl	0.000			2.66667		NR	34 - 158		S4

Matrix Spike Dup (B9D0887-MSD1)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

DRO	368.333	50	50	33.3333	261.183	321	34 - 130	25.3	20	R2, M2
Surrogate: <i>p</i> -Terphenyl	0.000			2.66667		NR	34 - 158			S4



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Project Number : LAUSD-Jordan HS, 11640
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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 Limit	Notes
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Batch B9D0881 - GCSEMI_PCB/PEST_S

Blank (B9D0881-BLK1)

Prepared: 4/18/2019 Analyzed: 4/18/2019

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
Heptachlor epoxide [2C]	ND	1.0	0.09
Methoxychlor	ND	5.0	0.18



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/19/2019

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0881 - GCSEMI_PCB/PEST_S (continued)

Blank (B9D0881-BLK1) - Continued

Prepared: 4/18/2019 Analyzed: 4/18/2019

Methoxychlor [2C]	ND	5.0	0.18
Toxaphene	ND	50	4.7
Toxaphene [2C]	ND	50	4.7

<i>Surrogate: Decachlorobiphenyl</i>	<i>10.27</i>		<i>16.6667</i>	<i>61.6</i>	<i>32 - 91</i>
<i>Surrogate: Decachlorobiphenyl [</i>	<i>12.06</i>		<i>16.6667</i>	<i>72.3</i>	<i>32 - 91</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>10.91</i>		<i>16.6667</i>	<i>65.5</i>	<i>38 - 93</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>11.73</i>		<i>16.6667</i>	<i>70.4</i>	<i>38 - 93</i>

LCS (B9D0881-BS1)

Prepared: 4/18/2019 Analyzed: 4/18/2019

4,4'-DDD	11.0475	2.0	0.07	16.6667	66.3	66 - 112
4,4'-DDD [2C]	13.1332	2.0	0.07	16.6667	78.8	66 - 112
4,4'-DDE	12.2997	2.0	0.11	16.6667	73.8	62 - 112
4,4'-DDE [2C]	10.7217	2.0	0.11	16.6667	64.3	62 - 112
4,4'-DDT	8.98883	2.0	0.10	16.6667	53.9	48 - 90
4,4'-DDT [2C]	11.9082	2.0	0.10	16.6667	71.4	48 - 90
Aldrin	12.8925	1.0	0.12	16.6667	77.4	58 - 104
Aldrin [2C]	13.5860	1.0	0.12	16.6667	81.5	58 - 104
alpha-BHC	12.6420	1.0	0.11	16.6667	75.9	57 - 105
alpha-BHC [2C]	12.9060	1.0	0.11	16.6667	77.4	57 - 105
alpha-Chlordane	12.1073	1.0	0.12	16.6667	72.6	62 - 108
alpha-Chlordane [2C]	13.8145	1.0	0.12	16.6667	82.9	62 - 108
beta-BHC	11.5295	1.0	0.06	16.6667	69.2	59 - 106
beta-BHC [2C]	12.9300	1.0	0.06	16.6667	77.6	59 - 106
delta-BHC	11.3900	1.0	0.12	16.6667	68.3	63 - 115
delta-BHC [2C]	14.2582	1.0	0.12	16.6667	85.5	63 - 115
Dieldrin	11.3265	2.0	0.26	16.6667	68.0	59 - 102
Dieldrin [2C]	12.2645	2.0	0.26	16.6667	73.6	59 - 102
Endosulfan I	12.1628	1.0	0.10	16.6667	73.0	61 - 99
Endosulfan I [2C]	16.0260	1.0	0.10	16.6667	96.2	61 - 99
Endosulfan II	13.6625	2.0	0.15	16.6667	82.0	65 - 105
Endosulfan II [2C]	14.1232	2.0	0.15	16.6667	84.7	65 - 105
Endosulfan sulfate	10.3202	2.0	0.16	16.6667	61.9	59 - 107
Endosulfan Sulfate [2C]	12.3782	2.0	0.16	16.6667	74.3	59 - 107
Endrin	11.3487	2.0	0.14	16.6667	68.1	65 - 113
Endrin [2C]	13.0670	2.0	0.14	16.6667	78.4	65 - 113
Endrin aldehyde	11.2588	2.0	0.31	16.6667	67.6	61 - 109
Endrin aldehyde [2C]	13.1360	2.0	0.31	16.6667	78.8	61 - 109
Endrin ketone	9.97417	2.0	0.13	16.6667	59.8	56 - 97
Endrin ketone [2C]	11.4247	2.0	0.13	16.6667	68.5	56 - 97
gamma-BHC	12.0782	1.0	0.10	16.6667	72.5	57 - 101
gamma-BHC [2C]	12.5727	1.0	0.10	16.6667	75.4	57 - 101



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Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Currency
Reported : 04/19/2019

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0881 - GCSEMI_PCB/PEST_S (continued)

LCS (B9D0881-BS1) - Continued

Prepared: 4/18/2019 Analyzed: 4/18/2019

gamma-Chlordane	11.4788	1.0	0.89	16.6667		68.9	56 - 125		
gamma-Chlordane [2C]	13.4645	1.0	0.89	16.6667		80.8	56 - 125		
Heptachlor	17.3300	1.0	0.12	16.6667		104	61 - 105		
Heptachlor [2C]	13.7552	1.0	0.12	16.6667		82.5	61 - 105		
Heptachlor epoxide	11.5312	1.0	0.09	16.6667		69.2	59 - 97		
Heptachlor epoxide [2C]	12.6557	1.0	0.09	16.6667		75.9	59 - 97		
Methoxychlor	11.7177	5.0	0.18	16.6667		70.3	68 - 118		
Methoxychlor [2C]	13.2103	5.0	0.18	16.6667		79.3	68 - 118		
Surrogate: Decachlorobiphenyl	11.50			16.6667		69.0	32 - 91		
Surrogate: Decachlorobiphenyl [	12.86			16.6667		77.2	32 - 91		
Surrogate: Tetrachloro-m-xylene	11.70			16.6667		70.2	38 - 93		
Surrogate: Tetrachloro-m-xylene	12.33			16.6667		74.0	38 - 93		

Duplicate (B9D0881-DUP1)

Source: 1901501-05

Prepared: 4/18/2019 Analyzed: 4/18/2019

4,4'-DDD	ND	2.0	0.07	ND				20	
4,4'-DDD [2C]	ND	2.0	0.07	ND				20	
4,4'-DDE	0.543333	2.0	0.11	0.384167			34.3	20	R3
4,4'-DDE [2C]	0.847500	2.0	0.11	0.582000			37.1	20	R3
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	0.12	ND				20	
Aldrin [2C]	ND	1.0	0.12	ND				20	
alpha-BHC	ND	1.0	0.11	ND				20	
alpha-BHC [2C]	ND	1.0	0.11	ND				20	
alpha-Chlordane	1.00850	1.0	0.12	1.20783			18.0	20	
alpha-Chlordane [2C]	2.39883	1.0	0.12	2.35217			1.96	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	0.12	ND				20	
delta-BHC [2C]	ND	1.0	0.12	ND				20	
Dieldrin	0.424167	2.0	0.26	ND			NR	20	
Dieldrin [2C]	0.556500	2.0	0.26	ND			NR	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	0.15	ND				20	
Endosulfan II [2C]	ND	2.0	0.15	ND				20	
Endosulfan sulfate	ND	2.0	0.16	ND				20	
Endosulfan Sulfate [2C]	ND	2.0	0.16	ND				20	
Endrin	ND	2.0	0.14	ND				20	
Endrin [2C]	ND	2.0	0.14	ND				20	
Endrin aldehyde	ND	2.0	0.31	ND				20	



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Project Number : LAUSD-Jordan HS, 11640
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Reported : 04/19/2019

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0881 - GCSEMI_PCB/PEST_S (continued)

Duplicate (B9D0881-DUP1) - Continued

Source: 1901501-05

Prepared: 4/18/2019 Analyzed: 4/18/2019

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	2.00483	1.0	0.89		1.60833		21.9	20	R3
gamma-Chlordane [2C]	1.27267	1.0	0.89		1.17233		8.21	20	
Heptachlor	ND	1.0	0.12		ND			20	
Heptachlor [2C]	ND	1.0	0.12		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	12.13			16.6667		72.8	32 - 91		
Surrogate: Decachlorobiphenyl [	13.20			16.6667		79.2	32 - 91		
Surrogate: Tetrachloro-m-xylene	11.22			16.6667		67.3	38 - 93		
Surrogate: Tetrachloro-m-xylene	11.44			16.6667		68.7	38 - 93		

Matrix Spike (B9D0881-MS1)

Source: 1901501-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

4,4'-DDD	35.9017	20	0.70	16.6667	12.1050	143	33 - 116		M2
4,4'-DDD [2C]	25.2383	20	0.70	16.6667	19.4333	34.8	33 - 116		
4,4'-DDE	20.0517	20	1.1	16.6667	11.6000	50.7	29 - 128		
4,4'-DDE [2C]	22.0667	20	1.1	16.6667	18.2350	23.0	29 - 128		M2
4,4'-DDT	7.70333	20	1.0	16.6667	ND	46.2	27 - 109		
4,4'-DDT [2C]	10.0717	20	1.0	16.6667	ND	60.4	27 - 109		
Aldrin	226.555	10	1.2	16.6667	ND	1360	34 - 110		M2
Aldrin [2C]	9.90000	10	1.2	16.6667	ND	59.4	34 - 110		
alpha-BHC	8.70333	10	1.1	16.6667	ND	52.2	39 - 107		
alpha-BHC [2C]	9.51167	10	1.1	16.6667	ND	57.1	39 - 107		
alpha-Chlordane	11.4417	10	1.2	16.6667	ND	68.7	37 - 111		
alpha-Chlordane [2C]	8.49000	10	1.2	16.6667	ND	50.9	37 - 111		
beta-BHC	9.67667	10	0.60	16.6667	ND	58.1	33 - 111		
beta-BHC [2C]	9.74667	10	0.60	16.6667	ND	58.5	33 - 111		
delta-BHC	7.65833	10	1.2	16.6667	ND	45.9	25 - 122		
delta-BHC [2C]	7.98500	10	1.2	16.6667	ND	47.9	25 - 122		
Dieldrin	10.9533	20	2.6	16.6667	ND	65.7	28 - 114		
Dieldrin [2C]	10.9583	20	2.6	16.6667	ND	65.7	28 - 114		
Endosulfan I	12.7767	10	1.0	16.6667	ND	76.7	35 - 107		
Endosulfan I [2C]	15.1417	10	1.0	16.6667	ND	90.8	35 - 107		
Endosulfan II	8.73833	20	1.5	16.6667	ND	52.4	13 - 122		
Endosulfan II [2C]	13.8600	20	1.5	16.6667	ND	83.2	13 - 122		



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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 B9D0881 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B9D0881-MS1) - Continued

Source: 1901501-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Endosulfan sulfate	5.55167	20	1.6	16.6667	ND	33.3	13 - 120			
Endosulfan Sulfate [2C]	12.7333	20	1.6	16.6667	ND	76.4	13 - 120			
Endrin	13.6633	20	1.4	16.6667	ND	82.0	31 - 121			
Endrin [2C]	16.7450	20	1.4	16.6667	ND	100	31 - 121			
Endrin aldehyde	6.73667	20	3.1	16.6667	ND	40.4	18 - 129			
Endrin aldehyde [2C]	12.7150	20	3.1	16.6667	ND	76.3	18 - 129			
Endrin ketone	18.8200	20	1.3	16.6667	ND	113	14 - 113			
Endrin ketone [2C]	28.6317	20	1.3	16.6667	ND	172	14 - 113			M2
gamma-BHC	14.5733	10	1.0	16.6667	ND	87.4	34 - 104			
gamma-BHC [2C]	13.7833	10	1.0	16.6667	ND	82.7	34 - 104			
gamma-Chlordane	16.6417	10	8.9	16.6667	ND	99.8	35 - 121			
gamma-Chlordane [2C]	14.4450	10	8.9	16.6667	ND	86.7	35 - 121			
Heptachlor	7.85000	10	1.2	16.6667	ND	47.1	35 - 110			
Heptachlor [2C]	12.4733	10	1.2	16.6667	ND	74.8	35 - 110			
Heptachlor epoxide	14.9117	10	0.89	16.6667	ND	89.5	31 - 106			
Heptachlor epoxide [2C]	1567.54	10	0.89	16.6667	ND	9410	31 - 106			M2
Methoxychlor	5.82167	50	1.8	16.6667	ND	34.9	21 - 128			
Methoxychlor [2C]	15.4800	50	1.8	16.6667	ND	92.9	21 - 128			
Surrogate: Decachlorobiphenyl	13.80			16.6667		82.8	32 - 91			
Surrogate: Decachlorobiphenyl [	14.26			16.6667		85.5	32 - 91			
Surrogate: Tetrachloro-m-xylene	10.70			16.6667		64.2	38 - 93			
Surrogate: Tetrachloro-m-xylene	10.24			16.6667		61.5	38 - 93			

Matrix Spike (B9D0881-MS2)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

4,4'-DDD	23.1867	20	0.70	16.6667	42.8807	-118	33 - 116			M2
4,4'-DDD [2C]	27.5500	20	0.70	16.6667	51.5997	-144	33 - 116			M2
4,4'-DDE	79.0600	20	1.1	16.6667	111.898	-197	29 - 128			M2
4,4'-DDE [2C]	86.1383	20	1.1	16.6667	20.6767	393	29 - 128			M2
4,4'-DDT	2.02667	20	1.0	16.6667	17.0125	-89.9	27 - 109			M2
4,4'-DDT [2C]	3.13500	20	1.0	16.6667	23.6957	-123	27 - 109			M2
Aldrin	3.33500	10	1.2	16.6667	ND	20.0	34 - 110			M2
Aldrin [2C]	4.44833	10	1.2	16.6667	ND	26.7	34 - 110			M2
alpha-BHC	3.12667	10	1.1	16.6667	ND	18.8	39 - 107			M2
alpha-BHC [2C]	4.13000	10	1.1	16.6667	ND	24.8	39 - 107			M2
alpha-Chlordane	3.95500	10	1.2	16.6667	1.37967	15.5	37 - 111			M2
alpha-Chlordane [2C]	4.22833	10	1.2	16.6667	1.96650	13.6	37 - 111			M2
beta-BHC	2.17500	10	0.60	16.6667	ND	13.0	33 - 111			M2
beta-BHC [2C]	2.60333	10	0.60	16.6667	ND	15.6	33 - 111			M2
delta-BHC	2.14167	10	1.2	16.6667	ND	12.8	25 - 122			M2
delta-BHC [2C]	2.97500	10	1.2	16.6667	ND	17.8	25 - 122			M2
Dieldrin	7.21333	20	2.6	16.6667	7.63650	-2.54	28 - 114			M2



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

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Currency
Reported : 04/19/2019

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	Notes
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Batch B9D0881 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B9D0881-MS2) - Continued

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Dieldrin [2C]	7.57667	20	2.6	16.6667	8.30800	-4.39	28 - 114			M2
Endosulfan I	3.78667	10	1.0	16.6667	ND	22.7	35 - 107			M2
Endosulfan I [2C]	6.18000	10	1.0	16.6667	ND	37.1	35 - 107			
Endosulfan II	4.27833	20	1.5	16.6667	ND	25.7	13 - 122			
Endosulfan II [2C]	3.88500	20	1.5	16.6667	ND	23.3	13 - 122			
Endosulfan sulfate	1.86500	20	1.6	16.6667	ND	11.2	13 - 120			M2
Endosulfan Sulfate [2C]	4.51333	20	1.6	16.6667	ND	27.1	13 - 120			
Endrin	2.67500	20	1.4	16.6667	ND	16.0	31 - 121			M2
Endrin [2C]	3.48167	20	1.4	16.6667	ND	20.9	31 - 121			M2
Endrin aldehyde	3.18333	20	3.1	16.6667	ND	19.1	18 - 129			
Endrin aldehyde [2C]	3.25000	20	3.1	16.6667	ND	19.5	18 - 129			
Endrin ketone	1.27333	20	1.3	16.6667	ND	7.64	14 - 113			M2
Endrin ketone [2C]	2.04333	20	1.3	16.6667	ND	12.3	14 - 113			M2
gamma-BHC	2.91000	10	1.0	16.6667	ND	17.5	34 - 104			M2
gamma-BHC [2C]	3.12500	10	1.0	16.6667	ND	18.8	34 - 104			M2
gamma-Chlordane	21.7250	10	8.9	16.6667	114.905	-559	35 - 121			M2
gamma-Chlordane [2C]	ND	10	8.9	16.6667	ND	NR	35 - 121			M2
Heptachlor	2.37833	10	1.2	16.6667	ND	14.3	35 - 110			M2
Heptachlor [2C]	2.21833	10	1.2	16.6667	ND	13.3	35 - 110			M2
Heptachlor epoxide	3.21167	10	0.89	16.6667	ND	19.3	31 - 106			M2
Heptachlor epoxide [2C]	4.12000	10	0.89	16.6667	ND	24.7	31 - 106			M2
Methoxychlor	1.96500	50	1.8	16.6667	ND	11.8	21 - 128			M2
Methoxychlor [2C]	ND	50	1.8	16.6667	ND	NR	21 - 128			M2
Surrogate: Decachlorobiphenyl	5.462			16.6667		32.8	32 - 91			
Surrogate: Decachlorobiphenyl [	5.843			16.6667		35.1	32 - 91			
Surrogate: Tetrachloro-m-xylene	7.572			16.6667		45.4	38 - 93			
Surrogate: Tetrachloro-m-xylene	6.912			16.6667		41.5	38 - 93			

Matrix Spike Dup (B9D0881-MSD1)

Source: 1901501-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

4,4'-DDD	34.2150	20	0.70	16.6667	12.1050	133	33 - 116	4.81	20	M2
4,4'-DDD [2C]	24.6000	20	0.70	16.6667	19.4333	31.0	33 - 116	2.56	20	M2
4,4'-DDE	25.0233	20	1.1	16.6667	11.6000	80.5	29 - 128	22.1	20	R3
4,4'-DDE [2C]	32.9217	20	1.1	16.6667	18.2350	88.1	29 - 128	39.5	20	R3
4,4'-DDT	10.0817	20	1.0	16.6667	ND	60.5	27 - 109	26.7	20	R3
4,4'-DDT [2C]	10.3117	20	1.0	16.6667	ND	61.9	27 - 109	2.35	20	
Aldrin	300.453	10	1.2	16.6667	ND	1800	34 - 110	28.0	20	M2, R3
Aldrin [2C]	9.53000	10	1.2	16.6667	ND	57.2	34 - 110	3.81	20	
alpha-BHC	9.67500	10	1.1	16.6667	ND	58.0	39 - 107	10.6	20	
alpha-BHC [2C]	11.3850	10	1.1	16.6667	ND	68.3	39 - 107	17.9	20	
alpha-Chlordane	19.8850	10	1.2	16.6667	ND	119	37 - 111	53.9	20	M2, R3
alpha-Chlordane [2C]	9.57333	10	1.2	16.6667	ND	57.4	37 - 111	12.0	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 Limits	RPD	RPD Limit	Notes
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Batch B9D0881 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B9D0881-MSD1) - Continued

Source: 1901501-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

beta-BHC	10.6233	10	0.60	16.6667	ND	63.7	33 - 111	9.33	20	
beta-BHC [2C]	8.95000	10	0.60	16.6667	ND	53.7	33 - 111	8.52	20	
delta-BHC	8.49667	10	1.2	16.6667	ND	51.0	25 - 122	10.4	20	
delta-BHC [2C]	8.74500	10	1.2	16.6667	ND	52.5	25 - 122	9.09	20	
Dieldrin	16.9633	20	2.6	16.6667	ND	102	28 - 114	43.1	20	R3
Dieldrin [2C]	18.6017	20	2.6	16.6667	ND	112	28 - 114	51.7	20	R3
Endosulfan I	16.8717	10	1.0	16.6667	ND	101	35 - 107	27.6	20	R3
Endosulfan I [2C]	11.0400	10	1.0	16.6667	ND	66.2	35 - 107	31.3	20	R3
Endosulfan II	7.07500	20	1.5	16.6667	ND	42.4	13 - 122	21.0	20	R3
Endosulfan II [2C]	9.35833	20	1.5	16.6667	ND	56.1	13 - 122	38.8	20	R3
Endosulfan sulfate	10.0983	20	1.6	16.6667	ND	60.6	13 - 120	58.1	20	R3
Endosulfan Sulfate [2C]	17.7600	20	1.6	16.6667	ND	107	13 - 120	33.0	20	R3
Endrin	11.3817	20	1.4	16.6667	ND	68.3	31 - 121	18.2	20	
Endrin [2C]	17.2267	20	1.4	16.6667	ND	103	31 - 121	2.84	20	
Endrin aldehyde	9.45333	20	3.1	16.6667	ND	56.7	18 - 129	33.6	20	R3
Endrin aldehyde [2C]	11.7483	20	3.1	16.6667	ND	70.5	18 - 129	7.90	20	
Endrin ketone	24.6150	20	1.3	16.6667	ND	148	14 - 113	26.7	20	R3
Endrin ketone [2C]	11.2367	20	1.3	16.6667	ND	67.4	14 - 113	87.3	20	R3
gamma-BHC	12.3533	10	1.0	16.6667	ND	74.1	34 - 104	16.5	20	
gamma-BHC [2C]	11.3500	10	1.0	16.6667	ND	68.1	34 - 104	19.4	20	
gamma-Chlordane	17.6117	10	8.9	16.6667	ND	106	35 - 121	5.66	20	
gamma-Chlordane [2C]	13.1450	10	8.9	16.6667	ND	78.9	35 - 121	9.42	20	
Heptachlor	8.28500	10	1.2	16.6667	ND	49.7	35 - 110	5.39	20	
Heptachlor [2C]	12.5217	10	1.2	16.6667	ND	75.1	35 - 110	0.387	20	
Heptachlor epoxide	23.4300	10	0.89	16.6667	ND	141	31 - 106	44.4	20	M2, R3
Heptachlor epoxide [2C]	1354.02	10	0.89	16.6667	ND	8120	31 - 106	14.6	20	M2
Methoxychlor	18.9517	50	1.8	16.6667	ND	114	21 - 128	106	20	R3
Methoxychlor [2C]	9.79000	50	1.8	16.6667	ND	58.7	21 - 128	45.0	20	R3
Surrogate: Decachlorobiphenyl	13.65			16.6667		81.9	32 - 91			
Surrogate: Decachlorobiphenyl [	12.14			16.6667		72.8	32 - 91			
Surrogate: Tetrachloro-m-xylene	7.592			16.6667		45.5	38 - 93			
Surrogate: Tetrachloro-m-xylene	9.530			16.6667		57.2	38 - 93			

Matrix Spike Dup (B9D0881-MSD2)

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

4,4'-DDD	23.6900	20	0.70	16.6667	42.8807	-115	33 - 116	2.15	20	M2
4,4'-DDD [2C]	27.1100	20	0.70	16.6667	51.5997	-147	33 - 116	1.61	20	M2
4,4'-DDE	83.6933	20	1.1	16.6667	111.898	-169	29 - 128	5.69	20	M2
4,4'-DDE [2C]	90.4233	20	1.1	16.6667	20.6767	418	29 - 128	4.85	20	M2
4,4'-DDT	3.51833	20	1.0	16.6667	17.0125	-81.0	27 - 109	53.8	20	M2, R3
4,4'-DDT [2C]	5.51167	20	1.0	16.6667	23.6957	-109	27 - 109	55.0	20	M2, R3
Aldrin	3.53667	10	1.2	16.6667	ND	21.2	34 - 110	5.87	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 Limits	RPD	RPD Limit	Notes
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Batch B9D0881 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B9D0881-MSD2) - Continued

Source: 1901527-01

Prepared: 4/18/2019 Analyzed: 4/18/2019

Aldrin [2C]	4.68000	10	1.2	16.6667	ND	28.1	34 - 110	5.08	20	M2
alpha-BHC	3.27333	10	1.1	16.6667	ND	19.6	39 - 107	4.58	20	M2
alpha-BHC [2C]	4.30333	10	1.1	16.6667	ND	25.8	39 - 107	4.11	20	M2
alpha-Chlordane	4.22667	10	1.2	16.6667	1.37967	17.1	37 - 111	6.64	20	M2
alpha-Chlordane [2C]	4.45500	10	1.2	16.6667	1.96650	14.9	37 - 111	5.22	20	M2
beta-BHC	2.34500	10	0.60	16.6667	ND	14.1	33 - 111	7.52	20	M2
beta-BHC [2C]	2.55667	10	0.60	16.6667	ND	15.3	33 - 111	1.81	20	M2
delta-BHC	2.28333	10	1.2	16.6667	ND	13.7	25 - 122	6.40	20	M2
delta-BHC [2C]	3.27667	10	1.2	16.6667	ND	19.7	25 - 122	9.65	20	M2
Dieldrin	7.67667	20	2.6	16.6667	7.63650	0.241	28 - 114	6.22	20	M2
Dieldrin [2C]	8.31333	20	2.6	16.6667	8.30800	0.0320	28 - 114	9.27	20	M2
Endosulfan I	4.06667	10	1.0	16.6667	ND	24.4	35 - 107	7.13	20	M2
Endosulfan I [2C]	6.58500	10	1.0	16.6667	ND	39.5	35 - 107	6.35	20	
Endosulfan II	4.60833	20	1.5	16.6667	ND	27.6	13 - 122	7.43	20	
Endosulfan II [2C]	4.19667	20	1.5	16.6667	ND	25.2	13 - 122	7.71	20	
Endosulfan sulfate	2.03000	20	1.6	16.6667	ND	12.2	13 - 120	8.47	20	M2
Endosulfan Sulfate [2C]	2.10500	20	1.6	16.6667	ND	12.6	13 - 120	72.8	20	M2, R3
Endrin	2.80833	20	1.4	16.6667	ND	16.8	31 - 121	4.86	20	M2
Endrin [2C]	3.65167	20	1.4	16.6667	ND	21.9	31 - 121	4.77	20	M2
Endrin aldehyde	3.58167	20	3.1	16.6667	ND	21.5	18 - 129	11.8	20	
Endrin aldehyde [2C]	3.93667	20	3.1	16.6667	ND	23.6	18 - 129	19.1	20	
Endrin ketone	ND	20	1.3	16.6667	ND	NR	14 - 113	NR	20	M2
Endrin ketone [2C]	ND	20	1.3	16.6667	ND	NR	14 - 113	NR	20	M2
gamma-BHC	3.10000	10	1.0	16.6667	ND	18.6	34 - 104	6.32	20	M2
gamma-BHC [2C]	3.25833	10	1.0	16.6667	ND	19.5	34 - 104	4.18	20	M2
gamma-Chlordane	24.0350	10	8.9	16.6667	114.905	-545	35 - 121	10.1	20	M2
gamma-Chlordane [2C]	ND	10	8.9	16.6667	ND	NR	35 - 121	NR	20	M2
Heptachlor	2.65333	10	1.2	16.6667	ND	15.9	35 - 110	10.9	20	M2
Heptachlor [2C]	2.53833	10	1.2	16.6667	ND	15.2	35 - 110	13.5	20	M2
Heptachlor epoxide	3.41500	10	0.89	16.6667	ND	20.5	31 - 106	6.14	20	M2
Heptachlor epoxide [2C]	4.88333	10	0.89	16.6667	ND	29.3	31 - 106	17.0	20	M2
Methoxychlor	ND	50	1.8	16.6667	ND	NR	21 - 128	NR	20	M2
Methoxychlor [2C]	ND	50	1.8	16.6667	ND	NR	21 - 128	NR	20	M2
Surrogate: Decachlorobiphenyl	4.277			16.6667		25.7	32 - 91			S10
Surrogate: Decachlorobiphenyl [	4.297			16.6667		25.8	32 - 91			S10
Surrogate: Tetrachloro-m-xylene	6.528			16.6667		39.2	38 - 93			
Surrogate: Tetrachloro-m-xylene	8.932			16.6667		53.6	38 - 93			



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Volatile Organic Compounds by EPA 8260B - Quality Control

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 B9D0901 - MSVOA_S

Blank (B9D0901-BLK1)

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1,1,2-Tetrachloroethane	ND	5.0	0.96
1,1,1-Trichloroethane	ND	5.0	1.1
1,1,2,2-Tetrachloroethane	ND	5.0	0.62
1,1,2-Trichloroethane	ND	5.0	1.6
1,1-Dichloroethane	ND	5.0	0.81
1,1-Dichloroethene	ND	5.0	2.6
1,1-Dichloropropene	ND	5.0	2.3
1,2,3-Trichloropropane	ND	5.0	0.54
1,2,3-Trichlorobenzene	ND	5.0	1.2
1,2,4-Trichlorobenzene	ND	5.0	1.1
1,2,4-Trimethylbenzene	ND	5.0	1.5
1,2-Dibromo-3-chloropropane	ND	10	1.6
1,2-Dibromoethane	ND	5.0	3.2
1,2-Dichlorobenzene	ND	5.0	1.1
1,2-Dichloroethane	ND	5.0	1.2
1,2-Dichloropropane	ND	5.0	1.8
1,3,5-Trimethylbenzene	ND	5.0	1.7
1,3-Dichlorobenzene	ND	5.0	1.3
1,3-Dichloropropane	ND	5.0	1.1
1,4-Dichlorobenzene	ND	5.0	1.2
2,2-Dichloropropane	ND	5.0	1.2
2-Chlorotoluene	ND	5.0	1.6
4-Chlorotoluene	ND	5.0	1.5
4-Isopropyltoluene	ND	5.0	2.3
Benzene	ND	5.0	0.64
Bromobenzene	ND	5.0	1.1
Bromochloromethane	ND	5.0	0.64
Bromodichloromethane	ND	5.0	1.2
Bromoform	ND	5.0	0.80
Bromomethane	ND	5.0	2.5
Carbon disulfide	ND	5.0	3.5
Carbon tetrachloride	ND	5.0	1.2
Chlorobenzene	ND	5.0	1.0
Chloroethane	ND	5.0	1.1
Chloroform	ND	5.0	0.82
Chloromethane	ND	5.0	1.4
cis-1,2-Dichloroethene	ND	5.0	0.67
cis-1,3-Dichloropropene	ND	5.0	1.9
Di-isopropyl ether	ND	5.0	0.55
Dibromochloromethane	ND	5.0	1.0
Dibromomethane	ND	5.0	1.6



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0901 - MSVOA_S (continued)

Blank (B9D0901-BLK1) - Continued

Prepared: 4/19/2019 Analyzed: 4/19/2019

Dichlorodifluoromethane	ND	5.0	2.2
Ethyl Acetate	ND	50	8.1
Ethyl Ether	ND	50	6.1
Ethyl tert-butyl ether	ND	5.0	0.67
Ethylbenzene	ND	5.0	0.91
Freon-113	ND	5.0	2.8
Hexachlorobutadiene	ND	5.0	2.5
Isopropylbenzene	ND	5.0	1.8
m,p-Xylene	ND	10	1.5
Methylene chloride	ND	5.0	2.3
MTBE	ND	5.0	0.63
n-Butylbenzene	ND	5.0	2.4
n-Propylbenzene	ND	5.0	2.2
Naphthalene	ND	5.0	0.97
o-Xylene	ND	5.0	0.87
sec-Butylbenzene	ND	5.0	2.3
Styrene	ND	5.0	1.5
tert-Amyl methyl ether	ND	5.0	0.59
tert-Butanol	ND	100	19
tert-Butylbenzene	ND	5.0	2.0
Tetrachloroethene	ND	5.0	1.6
Toluene	ND	5.0	0.94
trans-1,2-Dichloroethene	ND	5.0	0.59
trans-1,3-Dichloropropene	ND	5.0	2.1
Trichloroethene	ND	5.0	3.1
Trichlorofluoromethane	ND	5.0	1.4
Vinyl acetate	ND	50	9.8
Vinyl chloride	ND	5.0	1.7

Surrogate: 1,2-Dichloroethane-d4	48.33		50.0000	96.7	60 - 145
Surrogate: 4-Bromofluorobenzene	48.89		50.0000	97.8	68 - 121
Surrogate: Dibromofluoromethane	47.99		50.0000	96.0	65 - 137
Surrogate: Toluene-d8	49.57		50.0000	99.1	82 - 119

LCS (B9D0901-BS1)

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1,1,2-Tetrachloroethane	43.4600	5.0	0.96	50.0000	86.9	82 - 114
1,1,1-Trichloroethane	43.1100	5.0	1.1	50.0000	86.2	70 - 121
1,1,2,2-Tetrachloroethane	43.8700	5.0	0.62	50.0000	87.7	65 - 116
1,1,2-Trichloroethane	46.3400	5.0	1.6	50.0000	92.7	73 - 114
1,1-Dichloroethane	44.3000	5.0	0.81	50.0000	88.6	69 - 117
1,1-Dichloroethene	45.1000	5.0	2.6	50.0000	90.2	57 - 128
1,1-Dichloropropene	44.0700	5.0	2.3	50.0000	88.1	76 - 122



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0901 - MSVOA_S (continued)

LCS (B9D0901-BS1) - Continued

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,2,3-Trichloropropane	47.4300	5.0	0.54	50.0000		94.9	65 - 116		
1,2,3-Trichlorobenzene	49.7600	5.0	1.2	50.0000		99.5	72 - 130		
1,2,4-Trichlorobenzene	45.0300	5.0	1.1	50.0000		90.1	74 - 141		
1,2,4-Trimethylbenzene	44.5800	5.0	1.5	50.0000		89.2	81 - 126		
1,2-Dibromo-3-chloropropane	40.9600	10	1.6	50.0000		81.9	63 - 126		
1,2-Dibromoethane	42.8400	5.0	3.2	50.0000		85.7	75 - 113		
1,2-Dichlorobenzene	41.2300	5.0	1.1	50.0000		82.5	83 - 114		L4
1,2-Dichloroethane	43.5900	5.0	1.2	50.0000		87.2	73 - 115		
1,2-Dichloropropane	43.2000	5.0	1.8	50.0000		86.4	75 - 117		
1,3,5-Trimethylbenzene	44.4300	5.0	1.7	50.0000		88.9	80 - 126		
1,3-Dichlorobenzene	43.6900	5.0	1.3	50.0000		87.4	83 - 113		
1,3-Dichloropropane	44.2100	5.0	1.1	50.0000		88.4	79 - 108		
1,4-Dichlorobenzene	41.6700	5.0	1.2	50.0000		83.3	82 - 114		
2,2-Dichloropropane	44.6300	5.0	1.2	50.0000		89.3	66 - 135		
2-Chlorotoluene	44.6600	5.0	1.6	50.0000		89.3	79 - 117		
4-Chlorotoluene	45.1300	5.0	1.5	50.0000		90.3	77 - 118		
4-Isopropyltoluene	46.3600	5.0	2.3	50.0000		92.7	81 - 129		
Benzene	87.9500	5.0	0.64	100.000		88.0	78 - 112		
Bromobenzene	41.7200	5.0	1.1	50.0000		83.4	79 - 111		
Bromochloromethane	43.4500	5.0	0.64	50.0000		86.9	69 - 116		
Bromodichloromethane	42.4800	5.0	1.2	50.0000		85.0	79 - 111		
Bromoform	41.6500	5.0	0.80	50.0000		83.3	75 - 119		
Bromomethane	57.7800	5.0	2.5	50.0000		116	31 - 168		
Carbon disulfide	44.6600	5.0	3.5	50.0000		89.3	54 - 141		
Carbon tetrachloride	43.5900	5.0	1.2	50.0000		87.2	74 - 125		
Chlorobenzene	43.6000	5.0	1.0	50.0000		87.2	83 - 112		
Chloroethane	46.1500	5.0	1.1	50.0000		92.3	53 - 144		
Chloroform	42.4800	5.0	0.82	50.0000		85.0	69 - 118		
Chloromethane	55.4500	5.0	1.4	50.0000		111	46 - 137		
cis-1,2-Dichloroethene	44.6300	5.0	0.67	50.0000		89.3	68 - 118		
cis-1,3-Dichloropropene	51.6500	5.0	1.9	50.0000		103	77 - 121		
Di-isopropyl ether	45.4900	5.0	0.55	50.0000		91.0	60 - 129		
Dibromochloromethane	42.8900	5.0	1.0	50.0000		85.8	80 - 111		
Dibromomethane	48.0300	5.0	1.6	50.0000		96.1	78 - 108		
Dichlorodifluoromethane	65.9700	5.0	2.2	50.0000		132	41 - 146		
Ethyl Acetate	448.420	50	8.1	500.000		89.7	52 - 130		
Ethyl Ether	485.970	50	6.1	500.000		97.2	54 - 138		
Ethyl tert-butyl ether	46.6200	5.0	0.67	50.0000		93.2	52 - 141		
Ethylbenzene	86.0100	5.0	0.91	100.000		86.0	82 - 121		
Freon-113	45.9200	5.0	2.8	50.0000		91.8	59 - 139		
Hexachlorobutadiene	47.0900	5.0	2.5	50.0000		94.2	69 - 143		
Isopropylbenzene	47.0000	5.0	1.8	50.0000		94.0	78 - 124		



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Project Number : LAUSD-Jordan HS, 11640
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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0901 - MSVOA_S (continued)

LCS (B9D0901-BS1) - Continued

Prepared: 4/19/2019 Analyzed: 4/19/2019

m,p-Xylene	89.7300	10	1.5	100.000		89.7	85 - 118		
Methylene chloride	44.5400	5.0	2.3	50.0000		89.1	44 - 146		
MTBE	44.7300	5.0	0.63	50.0000		89.5	61 - 122		
n-Butylbenzene	43.9500	5.0	2.4	50.0000		87.9	78 - 135		
n-Propylbenzene	45.1900	5.0	2.2	50.0000		90.4	78 - 127		
Naphthalene	45.9200	5.0	0.97	50.0000		91.8	68 - 129		
o-Xylene	88.6400	5.0	0.87	100.000		88.6	86 - 118		
sec-Butylbenzene	46.5500	5.0	2.3	50.0000		93.1	80 - 127		
Styrene	44.9800	5.0	1.5	50.0000		90.0	85 - 117		
tert-Amyl methyl ether	45.8100	5.0	0.59	50.0000		91.6	48 - 135		
tert-Butanol	233.430	100	19	250.000		93.4	0 - 175		
tert-Butylbenzene	43.7300	5.0	2.0	50.0000		87.5	81 - 122		
Tetrachloroethene	41.1000	5.0	1.6	50.0000		82.2	77 - 122		
Toluene	88.3500	5.0	0.94	100.000		88.4	79 - 114		
trans-1,2-Dichloroethene	41.6700	5.0	0.59	50.0000		83.3	66 - 125		
trans-1,3-Dichloropropene	45.2000	5.0	2.1	50.0000		90.4	76 - 120		
Trichloroethene	43.1300	5.0	3.1	50.0000		86.3	79 - 117		
Trichlorofluoromethane	48.4400	5.0	1.4	50.0000		96.9	55 - 133		
Vinyl acetate	491.320	50	9.8	500.000		98.3	52 - 141		
Vinyl chloride	54.1100	5.0	1.7	50.0000		108	58 - 132		
Surrogate: 1,2-Dichloroethane-d4	51.23			50.0000		102	60 - 145		
Surrogate: 4-Bromofluorobenzene	46.23			50.0000		92.5	68 - 121		
Surrogate: Dibromofluoromethane	47.77			50.0000		95.5	65 - 137		
Surrogate: Toluene-d8	49.09			50.0000		98.2	82 - 119		

LCS Dup (B9D0901-BSD1)

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1,1,2-Tetrachloroethane	44.7400	5.0	0.96	50.0000		89.5	82 - 114	2.90	20
1,1,1-Trichloroethane	44.9600	5.0	1.1	50.0000		89.9	70 - 121	4.20	20
1,1,2,2-Tetrachloroethane	44.2800	5.0	0.62	50.0000		88.6	65 - 116	0.930	20
1,1,2-Trichloroethane	49.7800	5.0	1.6	50.0000		99.6	73 - 114	7.16	20
1,1-Dichloroethane	46.2300	5.0	0.81	50.0000		92.5	69 - 117	4.26	20
1,1-Dichloroethene	44.8400	5.0	2.6	50.0000		89.7	57 - 128	0.578	20
1,1-Dichloropropene	43.8700	5.0	2.3	50.0000		87.7	76 - 122	0.455	20
1,2,3-Trichloropropane	47.1800	5.0	0.54	50.0000		94.4	65 - 116	0.528	20
1,2,3-Trichlorobenzene	52.8800	5.0	1.2	50.0000		106	72 - 130	6.08	20
1,2,4-Trichlorobenzene	48.8600	5.0	1.1	50.0000		97.7	74 - 141	8.16	20
1,2,4-Trimethylbenzene	46.6400	5.0	1.5	50.0000		93.3	81 - 126	4.52	20
1,2-Dibromo-3-chloropropane	45.4100	10	1.6	50.0000		90.8	63 - 126	10.3	20
1,2-Dibromoethane	45.6700	5.0	3.2	50.0000		91.3	75 - 113	6.39	20
1,2-Dichlorobenzene	45.0600	5.0	1.1	50.0000		90.1	83 - 114	8.88	20
1,2-Dichloroethane	46.1300	5.0	1.2	50.0000		92.3	73 - 115	5.66	20



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0901 - MSVOA_S (continued)

LCS Dup (B9D0901-BSD1) - Continued

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,2-Dichloropropane	45.0400	5.0	1.8	50.0000		90.1	75 - 117	4.17	20	
1,3,5-Trimethylbenzene	46.1100	5.0	1.7	50.0000		92.2	80 - 126	3.71	20	
1,3-Dichlorobenzene	45.0800	5.0	1.3	50.0000		90.2	83 - 113	3.13	20	
1,3-Dichloropropane	43.6400	5.0	1.1	50.0000		87.3	79 - 108	1.30	20	
1,4-Dichlorobenzene	43.5600	5.0	1.2	50.0000		87.1	82 - 114	4.44	20	
2,2-Dichloropropane	46.3000	5.0	1.2	50.0000		92.6	66 - 135	3.67	20	
2-Chlorotoluene	46.3000	5.0	1.6	50.0000		92.6	79 - 117	3.61	20	
4-Chlorotoluene	45.6300	5.0	1.5	50.0000		91.3	77 - 118	1.10	20	
4-Isopropyltoluene	48.4000	5.0	2.3	50.0000		96.8	81 - 129	4.31	20	
Benzene	88.0700	5.0	0.64	100.000		88.1	78 - 112	0.136	20	
Bromobenzene	45.3400	5.0	1.1	50.0000		90.7	79 - 111	8.32	20	
Bromochloromethane	46.2500	5.0	0.64	50.0000		92.5	69 - 116	6.24	20	
Bromodichloromethane	45.1800	5.0	1.2	50.0000		90.4	79 - 111	6.16	20	
Bromoform	44.4600	5.0	0.80	50.0000		88.9	75 - 119	6.53	20	
Bromomethane	65.8000	5.0	2.5	50.0000		132	31 - 168	13.0	20	
Carbon disulfide	43.3500	5.0	3.5	50.0000		86.7	54 - 141	2.98	20	
Carbon tetrachloride	44.4600	5.0	1.2	50.0000		88.9	74 - 125	1.98	20	
Chlorobenzene	44.1000	5.0	1.0	50.0000		88.2	83 - 112	1.14	20	
Chloroethane	47.0500	5.0	1.1	50.0000		94.1	53 - 144	1.93	20	
Chloroform	45.1600	5.0	0.82	50.0000		90.3	69 - 118	6.12	20	
Chloromethane	58.0800	5.0	1.4	50.0000		116	46 - 137	4.63	20	
cis-1,2-Dichloroethene	46.3200	5.0	0.67	50.0000		92.6	68 - 118	3.72	20	
cis-1,3-Dichloropropene	53.9100	5.0	1.9	50.0000		108	77 - 121	4.28	20	
Di-isopropyl ether	47.1600	5.0	0.55	50.0000		94.3	60 - 129	3.60	20	
Dibromochloromethane	42.5700	5.0	1.0	50.0000		85.1	80 - 111	0.749	20	
Dibromomethane	48.7600	5.0	1.6	50.0000		97.5	78 - 108	1.51	20	
Dichlorodifluoromethane	68.0900	5.0	2.2	50.0000		136	41 - 146	3.16	20	
Ethyl Acetate	471.070	50	8.1	500.000		94.2	52 - 130	4.93	20	
Ethyl Ether	531.300	50	6.1	500.000		106	54 - 138	8.91	20	
Ethyl tert-butyl ether	49.1500	5.0	0.67	50.0000		98.3	52 - 141	5.28	20	
Ethylbenzene	86.9500	5.0	0.91	100.000		87.0	82 - 121	1.09	20	
Freon-113	45.8600	5.0	2.8	50.0000		91.7	59 - 139	0.131	20	
Hexachlorobutadiene	50.4800	5.0	2.5	50.0000		101	69 - 143	6.95	20	
Isopropylbenzene	47.4200	5.0	1.8	50.0000		94.8	78 - 124	0.890	20	
m,p-Xylene	92.3500	10	1.5	100.000		92.4	85 - 118	2.88	20	
Methylene chloride	47.3800	5.0	2.3	50.0000		94.8	44 - 146	6.18	20	
MTBE	47.0300	5.0	0.63	50.0000		94.1	61 - 122	5.01	20	
n-Butylbenzene	44.7600	5.0	2.4	50.0000		89.5	78 - 135	1.83	20	
n-Propylbenzene	46.6300	5.0	2.2	50.0000		93.3	78 - 127	3.14	20	
Naphthalene	48.4000	5.0	0.97	50.0000		96.8	68 - 129	5.26	20	
o-Xylene	91.4000	5.0	0.87	100.000		91.4	86 - 118	3.07	20	
sec-Butylbenzene	48.2300	5.0	2.3	50.0000		96.5	80 - 127	3.55	20	



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0901 - MSVOA_S (continued)

LCS Dup (B9D0901-BSD1) - Continued

Prepared: 4/19/2019 Analyzed: 4/19/2019

Styrene	46.8500	5.0	1.5	50.0000		93.7	85 - 117	4.07	20
tert-Amyl methyl ether	47.5600	5.0	0.59	50.0000		95.1	48 - 135	3.75	20
tert-Butanol	242.570	100	19	250.000		97.0	0 - 175	3.84	20
tert-Butylbenzene	44.3800	5.0	2.0	50.0000		88.8	81 - 122	1.48	20
Tetrachloroethene	42.1600	5.0	1.6	50.0000		84.3	77 - 122	2.55	20
Toluene	90.2300	5.0	0.94	100.000		90.2	79 - 114	2.11	20
trans-1,2-Dichloroethene	44.5000	5.0	0.59	50.0000		89.0	66 - 125	6.57	20
trans-1,3-Dichloropropene	47.2400	5.0	2.1	50.0000		94.5	76 - 120	4.41	20
Trichloroethene	43.0800	5.0	3.1	50.0000		86.2	79 - 117	0.116	20
Trichlorofluoromethane	50.6300	5.0	1.4	50.0000		101	55 - 133	4.42	20
Vinyl acetate	541.240	50	9.8	500.000		108	52 - 141	9.67	20
Vinyl chloride	56.4500	5.0	1.7	50.0000		113	58 - 132	4.23	20
Surrogate: 1,2-Dichloroethane-d4	53.26			50.0000		107	60 - 145		
Surrogate: 4-Bromofluorobenzene	47.81			50.0000		95.6	68 - 121		
Surrogate: Dibromofluoromethane	51.69			50.0000		103	65 - 137		
Surrogate: Toluene-d8	48.64			50.0000		97.3	82 - 119		

Duplicate (B9D0901-DUP1)

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1,1,2-Tetrachloroethane	ND	5.0	0.96		ND				20
1,1,1-Trichloroethane	ND	5.0	1.1		ND				20
1,1,2,2-Tetrachloroethane	ND	5.0	0.62		ND				20
1,1,2-Trichloroethane	ND	5.0	1.6		ND				20
1,1-Dichloroethane	ND	5.0	0.81		ND				20
1,1-Dichloroethene	ND	5.0	2.6		ND				20
1,1-Dichloropropene	ND	5.0	2.3		ND				20
1,2,3-Trichloropropane	ND	5.0	0.54		ND				20
1,2,3-Trichlorobenzene	ND	5.0	1.2		ND				20
1,2,4-Trichlorobenzene	ND	5.0	1.1		ND				20
1,2,4-Trimethylbenzene	ND	5.0	1.5		ND				20
1,2-Dibromo-3-chloropropane	ND	10	1.6		ND				20
1,2-Dibromoethane	ND	5.0	3.2		ND				20
1,2-Dichlorobenzene	ND	5.0	1.1		ND				20
1,2-Dichloroethane	ND	5.0	1.2		ND				20
1,2-Dichloropropane	ND	5.0	1.8		ND				20
1,3,5-Trimethylbenzene	ND	5.0	1.7		ND				20
1,3-Dichlorobenzene	ND	5.0	1.3		ND				20
1,3-Dichloropropane	ND	5.0	1.1		ND				20
1,4-Dichlorobenzene	ND	5.0	1.2		ND				20
2,2-Dichloropropane	ND	5.0	1.2		ND				20
2-Chlorotoluene	ND	5.0	1.6		ND				20
4-Chlorotoluene	ND	5.0	1.5		ND				20



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Volatile Organic Compounds by EPA 8260B - 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 B9D0901 - MSVOA_S (continued)

Duplicate (B9D0901-DUP1) - Continued

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

4-Isopropyltoluene	ND	5.0	2.3		ND				20	
Benzene	ND	5.0	0.64		ND				20	
Bromobenzene	ND	5.0	1.1		ND				20	
Bromochloromethane	ND	5.0	0.64		ND				20	
Bromodichloromethane	ND	5.0	1.2		ND				20	
Bromoform	ND	5.0	0.80		ND				20	
Bromomethane	ND	5.0	2.5		ND				20	
Carbon disulfide	ND	5.0	3.5		ND				20	
Carbon tetrachloride	ND	5.0	1.2		ND				20	
Chlorobenzene	ND	5.0	1.0		ND				20	
Chloroethane	ND	5.0	1.1		ND				20	
Chloroform	ND	5.0	0.82		ND				20	
Chloromethane	ND	5.0	1.4		ND				20	
cis-1,2-Dichloroethene	ND	5.0	0.67		ND				20	
cis-1,3-Dichloropropene	ND	5.0	1.9		ND				20	
Di-isopropyl ether	ND	5.0	0.55		ND				20	
Dibromochloromethane	ND	5.0	1.0		ND				20	
Dibromomethane	ND	5.0	1.6		ND				20	
Dichlorodifluoromethane	ND	5.0	2.2		ND				20	
Ethyl Acetate	ND	50	8.1		ND				20	
Ethyl Ether	ND	50	6.1		ND				20	
Ethyl tert-butyl ether	ND	5.0	0.67		ND				20	
Ethylbenzene	ND	5.0	0.91		ND				20	
Freon-113	ND	5.0	2.8		ND				20	
Hexachlorobutadiene	ND	5.0	2.5		ND				20	
Isopropylbenzene	ND	5.0	1.8		ND				20	
m,p-Xylene	ND	10	1.5		ND				20	
Methylene chloride	ND	5.0	2.3		ND				20	
MTBE	ND	5.0	0.63		ND				20	
n-Butylbenzene	ND	5.0	2.4		ND				20	
n-Propylbenzene	ND	5.0	2.2		ND				20	
Naphthalene	ND	5.0	0.97		ND				20	
o-Xylene	ND	5.0	0.87		ND				20	
sec-Butylbenzene	ND	5.0	2.3		ND				20	
Styrene	ND	5.0	1.5		ND				20	
tert-Amyl methyl ether	ND	5.0	0.59		ND				20	
tert-Butanol	ND	100	19		ND				20	
tert-Butylbenzene	ND	5.0	2.0		ND				20	
Tetrachloroethene	ND	5.0	1.6		ND				20	
Toluene	ND	5.0	0.94		ND				20	
trans-1,2-Dichloroethene	ND	5.0	0.59		ND				20	
trans-1,3-Dichloropropene	ND	5.0	2.1		ND				20	



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Volatile Organic Compounds by EPA 8260B - 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 B9D0901 - MSVOA_S (continued)

Duplicate (B9D0901-DUP1) - Continued

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

Trichloroethene	ND	5.0	3.1		ND				20	
Trichlorofluoromethane	ND	5.0	1.4		ND				20	
Vinyl acetate	ND	50	9.8		ND				20	
Vinyl chloride	ND	5.0	1.7		ND				20	

Surrogate: 1,2-Dichloroethane-d4	52.18			50.0000		104	60 - 145			
Surrogate: 4-Bromofluorobenzene	48.31			50.0000		96.6	68 - 121			
Surrogate: Dibromofluoromethane	50.67			50.0000		101	65 - 137			
Surrogate: Toluene-d8	49.03			50.0000		98.1	82 - 119			

Matrix Spike (B9D0901-MS1)

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1,1,2-Tetrachloroethane	45.9600	5.0	0.96	50.0000	ND	91.9	45 - 121			
1,1,1-Trichloroethane	54.1000	5.0	1.1	50.0000	ND	108	43 - 127			
1,1,2,2-Tetrachloroethane	45.5200	5.0	0.62	50.0000	ND	91.0	32 - 128			
1,1,2-Trichloroethane	48.5900	5.0	1.6	50.0000	ND	97.2	45 - 121			
1,1-Dichloroethane	54.0100	5.0	0.81	50.0000	ND	108	46 - 119			
1,1-Dichloroethene	56.2900	5.0	2.6	50.0000	ND	113	40 - 130			
1,1-Dichloropropene	51.7500	5.0	2.3	50.0000	ND	104	45 - 130			
1,2,3-Trichloropropane	55.7000	5.0	0.54	50.0000	ND	111	42 - 124			
1,2,3-Trichlorobenzene	32.5400	5.0	1.2	50.0000	ND	65.1	4 - 135			
1,2,4-Trichlorobenzene	34.1900	5.0	1.1	50.0000	ND	68.4	8 - 141			
1,2,4-Trimethylbenzene	46.1100	5.0	1.5	50.0000	ND	92.2	30 - 136			
1,2-Dibromo-3-chloropropane	42.3300	10	1.6	50.0000	ND	84.7	38 - 132			
1,2-Dibromoethane	47.5900	5.0	3.2	50.0000	ND	95.2	45 - 121			
1,2-Dichlorobenzene	40.8500	5.0	1.1	50.0000	ND	81.7	30 - 125			
1,2-Dichloroethane	47.5000	5.0	1.2	50.0000	ND	95.0	51 - 115			
1,2-Dichloropropane	47.0500	5.0	1.8	50.0000	ND	94.1	50 - 118			
1,3,5-Trimethylbenzene	45.4500	5.0	1.7	50.0000	ND	90.9	29 - 137			
1,3-Dichlorobenzene	43.7700	5.0	1.3	50.0000	ND	87.5	30 - 124			
1,3-Dichloropropane	46.3200	5.0	1.1	50.0000	ND	92.6	49 - 116			
1,4-Dichlorobenzene	42.2600	5.0	1.2	50.0000	ND	84.5	31 - 124			
2,2-Dichloropropane	56.8000	5.0	1.2	50.0000	ND	114	41 - 134			
2-Chlorotoluene	46.3600	5.0	1.6	50.0000	ND	92.7	32 - 127			
4-Chlorotoluene	46.8200	5.0	1.5	50.0000	ND	93.6	34 - 124			
4-Isopropyltoluene	46.8000	5.0	2.3	50.0000	ND	93.6	26 - 141			
Benzene	100.680	5.0	0.64	100.000	ND	101	48 - 117			
Bromobenzene	46.7400	5.0	1.1	50.0000	ND	93.5	40 - 117			
Bromochloromethane	50.2500	5.0	0.64	50.0000	ND	100	48 - 117			
Bromodichloromethane	47.6700	5.0	1.2	50.0000	ND	95.3	49 - 115			
Bromoform	43.5900	5.0	0.80	50.0000	ND	87.2	42 - 127			
Bromomethane	71.4000	5.0	2.5	50.0000	ND	143	19 - 157			
Carbon disulfide	54.9500	5.0	3.5	50.0000	ND	110	34 - 138			



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Surrency
Reported : 04/19/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0901 - MSVOA_S (continued)

Matrix Spike (B9D0901-MS1) - Continued

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

Carbon tetrachloride	52.6800	5.0	1.2	50.0000	ND	105	43 - 130		
Chlorobenzene	45.3600	5.0	1.0	50.0000	ND	90.7	41 - 122		
Chloroethane	61.6300	5.0	1.1	50.0000	ND	123	32 - 145		
Chloroform	50.0400	5.0	0.82	50.0000	ND	100	46 - 118		
Chloromethane	66.4000	5.0	1.4	50.0000	ND	133	34 - 132		M2
cis-1,2-Dichloroethene	49.5900	5.0	0.67	50.0000	ND	99.2	44 - 119		
cis-1,3-Dichloropropene	55.3200	5.0	1.9	50.0000	ND	111	44 - 126		
Di-isopropyl ether	50.4600	5.0	0.55	50.0000	ND	101	42 - 126		
Dibromochloromethane	45.7900	5.0	1.0	50.0000	ND	91.6	46 - 119		
Dibromomethane	50.0200	5.0	1.6	50.0000	ND	100	52 - 114		
Dichlorodifluoromethane	82.2400	5.0	2.2	50.0000	ND	164	22 - 147		M2
Ethyl Acetate	458.650	50	8.1	500.000	ND	91.7	9 - 140		
Ethyl Ether	529.520	50	6.1	500.000	ND	106	45 - 131		
Ethyl tert-butyl ether	50.5600	5.0	0.67	50.0000	ND	101	33 - 138		
Ethylbenzene	92.7800	5.0	0.91	100.000	ND	92.8	38 - 131		
Freon-113	53.6500	5.0	2.8	50.0000	ND	107	38 - 140		
Hexachlorobutadiene	32.0600	5.0	2.5	50.0000	ND	64.1	4 - 141		
Isopropylbenzene	51.8200	5.0	1.8	50.0000	ND	104	35 - 133		
m,p-Xylene	98.4800	10	1.5	100.000	ND	98.5	38 - 130		
Methylene chloride	52.3300	5.0	2.3	50.0000	ND	105	26 - 137		
MTBE	47.1600	5.0	0.63	50.0000	ND	94.3	45 - 121		
n-Butylbenzene	41.5500	5.0	2.4	50.0000	ND	83.1	18 - 144		
n-Propylbenzene	48.0600	5.0	2.2	50.0000	ND	96.1	30 - 137		
Naphthalene	36.6000	5.0	0.97	50.0000	ND	73.2	14 - 137		
o-Xylene	95.0100	5.0	0.87	100.000	ND	95.0	41 - 129		
sec-Butylbenzene	46.7900	5.0	2.3	50.0000	ND	93.6	24 - 140		
Styrene	47.7400	5.0	1.5	50.0000	ND	95.5	41 - 125		
tert-Amyl methyl ether	49.9700	5.0	0.59	50.0000	ND	99.9	31 - 133		
tert-Butanol	241.130	100	19	250.000	ND	96.5	0 - 201		
tert-Butylbenzene	46.1800	5.0	2.0	50.0000	ND	92.4	30 - 134		
Tetrachloroethene	47.7500	5.0	1.6	50.0000	ND	95.5	37 - 130		
Toluene	99.0200	5.0	0.94	100.000	ND	99.0	45 - 122		
trans-1,2-Dichloroethene	52.2500	5.0	0.59	50.0000	ND	104	46 - 122		
trans-1,3-Dichloropropene	46.6000	5.0	2.1	50.0000	ND	93.2	44 - 124		
Trichloroethene	50.0000	5.0	3.1	50.0000	ND	100	36 - 142		
Trichlorofluoromethane	64.0300	5.0	1.4	50.0000	ND	128	37 - 135		
Vinyl acetate	524.130	50	9.8	500.000	ND	105	0 - 136		
Vinyl chloride	67.3600	5.0	1.7	50.0000	ND	135	42 - 131		M2
Surrogate: 1,2-Dichloroethane-d4	50.90			50.0000		102	60 - 145		
Surrogate: 4-Bromofluorobenzene	46.06			50.0000		92.1	68 - 121		
Surrogate: Dibromofluoromethane	50.98			50.0000		102	65 - 137		



Certificate of Analysis

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0901 - MSVOA_S (continued)

Matrix Spike (B9D0901-MS1) - Continued

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

Surrogate: Toluene-d8	47.24	50.0000	94.5	82 - 119
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Matrix Spike (B9D0901-MS2)

Source: 1901424-02

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1,1,2-Tetrachloroethane	44.2500	5.0	0.96	50.0000	ND	88.5	45 - 121
1,1,1-Trichloroethane	42.8000	5.0	1.1	50.0000	ND	85.6	43 - 127
1,1,2,2-Tetrachloroethane	41.2900	5.0	0.62	50.0000	ND	82.6	32 - 128
1,1,2-Trichloroethane	44.3200	5.0	1.6	50.0000	ND	88.6	45 - 121
1,1-Dichloroethane	41.0400	5.0	0.81	50.0000	ND	82.1	46 - 119
1,1-Dichloroethene	41.7100	5.0	2.6	50.0000	ND	83.4	40 - 130
1,1-Dichloropropene	44.3100	5.0	2.3	50.0000	ND	88.6	45 - 130
1,2,3-Trichloropropane	47.7200	5.0	0.54	50.0000	ND	95.4	42 - 124
1,2,3-Trichlorobenzene	35.3000	5.0	1.2	50.0000	ND	70.6	4 - 135
1,2,4-Trichlorobenzene	35.0600	5.0	1.1	50.0000	ND	70.1	8 - 141
1,2,4-Trimethylbenzene	39.9300	5.0	1.5	50.0000	ND	79.9	30 - 136
1,2-Dibromo-3-chloropropane	40.1700	10	1.6	50.0000	ND	80.3	38 - 132
1,2-Dibromoethane	42.8100	5.0	3.2	50.0000	ND	85.6	45 - 121
1,2-Dichlorobenzene	39.5800	5.0	1.1	50.0000	ND	79.2	30 - 125
1,2-Dichloroethane	43.2700	5.0	1.2	50.0000	ND	86.5	51 - 115
1,2-Dichloropropane	40.0000	5.0	1.8	50.0000	ND	80.0	50 - 118
1,3,5-Trimethylbenzene	40.7100	5.0	1.7	50.0000	ND	81.4	29 - 137
1,3-Dichlorobenzene	39.7800	5.0	1.3	50.0000	ND	79.6	30 - 124
1,3-Dichloropropane	41.2300	5.0	1.1	50.0000	ND	82.5	49 - 116
1,4-Dichlorobenzene	39.5500	5.0	1.2	50.0000	ND	79.1	31 - 124
2,2-Dichloropropane	39.3500	5.0	1.2	50.0000	ND	78.7	41 - 134
2-Chlorotoluene	40.1200	5.0	1.6	50.0000	ND	80.2	32 - 127
4-Chlorotoluene	39.4100	5.0	1.5	50.0000	ND	78.8	34 - 124
4-Isopropyltoluene	40.7300	5.0	2.3	50.0000	ND	81.5	26 - 141
Benzene	82.0600	5.0	0.64	100.000	ND	82.1	48 - 117
Bromobenzene	42.0700	5.0	1.1	50.0000	ND	84.1	40 - 117
Bromochloromethane	42.0300	5.0	0.64	50.0000	ND	84.1	48 - 117
Bromodichloromethane	40.5300	5.0	1.2	50.0000	ND	81.1	49 - 115
Bromoform	42.7100	5.0	0.80	50.0000	ND	85.4	42 - 127
Bromomethane	57.0600	5.0	2.5	50.0000	ND	114	19 - 157
Carbon disulfide	42.3900	5.0	3.5	50.0000	ND	84.8	34 - 138
Carbon tetrachloride	43.1600	5.0	1.2	50.0000	ND	86.3	43 - 130
Chlorobenzene	41.4000	5.0	1.0	50.0000	ND	82.8	41 - 122
Chloroethane	43.9100	5.0	1.1	50.0000	ND	87.8	32 - 145
Chloroform	40.4700	5.0	0.82	50.0000	ND	80.9	46 - 118
Chloromethane	53.9800	5.0	1.4	50.0000	ND	108	34 - 132
cis-1,2-Dichloroethene	40.5100	5.0	0.67	50.0000	ND	81.0	44 - 119
cis-1,3-Dichloropropene	45.4900	5.0	1.9	50.0000	ND	91.0	44 - 126
Di-isopropyl ether	41.3800	5.0	0.55	50.0000	ND	82.8	42 - 126



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Volatile Organic Compounds by EPA 8260B - 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 B9D0901 - MSVOA_S (continued)

Matrix Spike (B9D0901-MS2) - Continued

Source: 1901424-02

Prepared: 4/19/2019 Analyzed: 4/19/2019

Dibromochloromethane	43.0600	5.0	1.0	50.0000	ND	86.1	46 - 119			
Dibromomethane	46.5800	5.0	1.6	50.0000	ND	93.2	52 - 114			
Dichlorodifluoromethane	63.3400	5.0	2.2	50.0000	ND	127	22 - 147			
Ethyl Acetate	352.580	50	8.1	500.000	ND	70.5	9 - 140			
Ethyl Ether	460.900	50	6.1	500.000	ND	92.2	45 - 131			
Ethyl tert-butyl ether	42.2900	5.0	0.67	50.0000	ND	84.6	33 - 138			
Ethylbenzene	80.8900	5.0	0.91	100.000	ND	80.9	38 - 131			
Freon-113	44.0900	5.0	2.8	50.0000	ND	88.2	38 - 140			
Hexachlorobutadiene	35.5200	5.0	2.5	50.0000	ND	71.0	4 - 141			
Isopropylbenzene	42.9300	5.0	1.8	50.0000	ND	85.9	35 - 133			
m,p-Xylene	86.0300	10	1.5	100.000	ND	86.0	38 - 130			
Methylene chloride	44.3100	5.0	2.3	50.0000	ND	88.6	26 - 137			
MTBE	40.9200	5.0	0.63	50.0000	ND	81.8	45 - 121			
n-Butylbenzene	36.9000	5.0	2.4	50.0000	ND	73.8	18 - 144			
n-Propylbenzene	40.4600	5.0	2.2	50.0000	ND	80.9	30 - 137			
Naphthalene	35.6800	5.0	0.97	50.0000	ND	71.4	14 - 137			
o-Xylene	84.1200	5.0	0.87	100.000	ND	84.1	41 - 129			
sec-Butylbenzene	39.6000	5.0	2.3	50.0000	ND	79.2	24 - 140			
Styrene	42.1500	5.0	1.5	50.0000	ND	84.3	41 - 125			
tert-Amyl methyl ether	41.0400	5.0	0.59	50.0000	ND	82.1	31 - 133			
tert-Butanol	200.710	100	19	250.000	ND	80.3	0 - 201			
tert-Butylbenzene	40.6500	5.0	2.0	50.0000	ND	81.3	30 - 134			
Tetrachloroethene	40.8400	5.0	1.6	50.0000	ND	81.7	37 - 130			
Toluene	84.7300	5.0	0.94	100.000	ND	84.7	45 - 122			
trans-1,2-Dichloroethene	39.8000	5.0	0.59	50.0000	ND	79.6	46 - 122			
trans-1,3-Dichloropropene	44.0200	5.0	2.1	50.0000	ND	88.0	44 - 124			
Trichloroethene	42.5600	5.0	3.1	50.0000	ND	85.1	36 - 142			
Trichlorofluoromethane	49.4900	5.0	1.4	50.0000	ND	99.0	37 - 135			
Vinyl acetate	183.390	50	9.8	500.000	ND	36.7	0 - 136			
Vinyl chloride	50.1800	5.0	1.7	50.0000	ND	100	42 - 131			

Surrogate: 1,2-Dichloroethane-d4	48.16			50.0000		96.3	60 - 145			
Surrogate: 4-Bromofluorobenzene	46.80			50.0000		93.6	68 - 121			
Surrogate: Dibromofluoromethane	46.54			50.0000		93.1	65 - 137			
Surrogate: Toluene-d8	48.65			50.0000		97.3	82 - 119			

Matrix Spike Dup (B9D0901-MSD1)

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1,1,2-Tetrachloroethane	40.6400	5.0	0.96	50.0000	ND	81.3	45 - 121	12.3	20	
1,1,1-Trichloroethane	45.2300	5.0	1.1	50.0000	ND	90.5	43 - 127	17.9	20	
1,1,2,2-Tetrachloroethane	41.5500	5.0	0.62	50.0000	ND	83.1	32 - 128	9.12	20	
1,1,2-Trichloroethane	41.2200	5.0	1.6	50.0000	ND	82.4	45 - 121	16.4	20	
1,1-Dichloroethane	46.3500	5.0	0.81	50.0000	ND	92.7	46 - 119	15.3	20	



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Volatile Organic Compounds by EPA 8260B - 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 B9D0901 - MSVOA_S (continued)

Matrix Spike Dup (B9D0901-MSD1) - Continued

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1-Dichloroethene	47.3700	5.0	2.6	50.0000	ND	94.7	40 - 130	17.2	20	
1,1-Dichloropropene	42.8400	5.0	2.3	50.0000	ND	85.7	45 - 130	18.8	20	
1,2,3-Trichloropropane	46.1000	5.0	0.54	50.0000	ND	92.2	42 - 124	18.9	20	
1,2,3-Trichlorobenzene	22.0700	5.0	1.2	50.0000	ND	44.1	4 - 135	38.3	20	R
1,2,4-Trichlorobenzene	23.6800	5.0	1.1	50.0000	ND	47.4	8 - 141	36.3	20	R
1,2,4-Trimethylbenzene	32.9400	5.0	1.5	50.0000	ND	65.9	30 - 136	33.3	20	R
1,2-Dibromo-3-chloropropane	40.7000	10	1.6	50.0000	ND	81.4	38 - 132	3.93	20	
1,2-Dibromoethane	41.2500	5.0	3.2	50.0000	ND	82.5	45 - 121	14.3	20	
1,2-Dichlorobenzene	32.0900	5.0	1.1	50.0000	ND	64.2	30 - 125	24.0	20	R
1,2-Dichloroethane	42.6500	5.0	1.2	50.0000	ND	85.3	51 - 115	10.8	20	
1,2-Dichloropropane	41.5500	5.0	1.8	50.0000	ND	83.1	50 - 118	12.4	20	
1,3,5-Trimethylbenzene	33.5100	5.0	1.7	50.0000	ND	67.0	29 - 137	30.2	20	R
1,3-Dichlorobenzene	32.1200	5.0	1.3	50.0000	ND	64.2	30 - 124	30.7	20	R
1,3-Dichloropropane	41.7500	5.0	1.1	50.0000	ND	83.5	49 - 116	10.4	20	
1,4-Dichlorobenzene	31.3300	5.0	1.2	50.0000	ND	62.7	31 - 124	29.7	20	R
2,2-Dichloropropane	46.9900	5.0	1.2	50.0000	ND	94.0	41 - 134	18.9	20	
2-Chlorotoluene	33.4300	5.0	1.6	50.0000	ND	66.9	32 - 127	32.4	20	R
4-Chlorotoluene	34.5900	5.0	1.5	50.0000	ND	69.2	34 - 124	30.0	20	R
4-Isopropyltoluene	28.1600	5.0	2.3	50.0000	ND	56.3	26 - 141	49.7	20	R
Benzene	85.6100	5.0	0.64	100.000	ND	85.6	48 - 117	16.2	20	
Bromobenzene	35.2800	5.0	1.1	50.0000	ND	70.6	40 - 117	27.9	20	R
Bromochloromethane	43.5200	5.0	0.64	50.0000	ND	87.0	48 - 117	14.4	20	
Bromodichloromethane	41.1400	5.0	1.2	50.0000	ND	82.3	49 - 115	14.7	20	
Bromoform	40.4600	5.0	0.80	50.0000	ND	80.9	42 - 127	7.45	20	
Bromomethane	54.9400	5.0	2.5	50.0000	ND	110	19 - 157	26.1	20	R
Carbon disulfide	43.7100	5.0	3.5	50.0000	ND	87.4	34 - 138	22.8	20	R
Carbon tetrachloride	43.7200	5.0	1.2	50.0000	ND	87.4	43 - 130	18.6	20	
Chlorobenzene	37.7600	5.0	1.0	50.0000	ND	75.5	41 - 122	18.3	20	
Chloroethane	55.6300	5.0	1.1	50.0000	ND	111	32 - 145	10.2	20	
Chloroform	44.1000	5.0	0.82	50.0000	ND	88.2	46 - 118	12.6	20	
Chloromethane	65.5200	5.0	1.4	50.0000	ND	131	34 - 132	1.33	20	
cis-1,2-Dichloroethene	44.1200	5.0	0.67	50.0000	ND	88.2	44 - 119	11.7	20	
cis-1,3-Dichloropropene	47.6200	5.0	1.9	50.0000	ND	95.2	44 - 126	15.0	20	
Di-isopropyl ether	45.2500	5.0	0.55	50.0000	ND	90.5	42 - 126	10.9	20	
Dibromochloromethane	40.5800	5.0	1.0	50.0000	ND	81.2	46 - 119	12.1	20	
Dibromomethane	45.1400	5.0	1.6	50.0000	ND	90.3	52 - 114	10.3	20	
Dichlorodifluoromethane	75.8400	5.0	2.2	50.0000	ND	152	22 - 147	8.10	20	M2
Ethyl Acetate	428.840	50	8.1	500.000	ND	85.8	9 - 140	6.72	20	
Ethyl Ether	502.840	50	6.1	500.000	ND	101	45 - 131	5.17	20	
Ethyl tert-butyl ether	46.4500	5.0	0.67	50.0000	ND	92.9	33 - 138	8.47	20	
Ethylbenzene	74.1900	5.0	0.91	100.000	ND	74.2	38 - 131	22.3	20	R
Freon-113	47.7600	5.0	2.8	50.0000	ND	95.5	38 - 140	11.6	20	



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Volatile Organic Compounds by EPA 8260B - 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 B9D0901 - MSVOA_S (continued)

Matrix Spike Dup (B9D0901-MSD1) - Continued

Source: 1901527-01

Prepared: 4/19/2019 Analyzed: 4/19/2019

Hexachlorobutadiene	18.2300	5.0	2.5	50.0000	ND	36.5	4 - 141	55.0	20	R
Isopropylbenzene	37.7900	5.0	1.8	50.0000	ND	75.6	35 - 133	31.3	20	R
m,p-Xylene	76.6600	10	1.5	100.000	ND	76.7	38 - 130	24.9	20	R
Methylene chloride	47.2100	5.0	2.3	50.0000	ND	94.4	26 - 137	10.3	20	
MTBE	44.0900	5.0	0.63	50.0000	ND	88.2	45 - 121	6.73	20	
n-Butylbenzene	26.5700	5.0	2.4	50.0000	ND	53.1	18 - 144	44.0	20	R
n-Propylbenzene	33.9400	5.0	2.2	50.0000	ND	67.9	30 - 137	34.4	20	R
Naphthalene	29.7900	5.0	0.97	50.0000	ND	59.6	14 - 137	20.5	20	R
o-Xylene	76.8600	5.0	0.87	100.000	ND	76.9	41 - 129	21.1	20	R
sec-Butylbenzene	27.2800	5.0	2.3	50.0000	ND	54.6	24 - 140	52.7	20	R
Styrene	38.4000	5.0	1.5	50.0000	ND	76.8	41 - 125	21.7	20	R
tert-Amyl methyl ether	44.1000	5.0	0.59	50.0000	ND	88.2	31 - 133	12.5	20	
tert-Butanol	255.650	100	19	250.000	ND	102	0 - 201	5.85	20	
tert-Butylbenzene	32.7300	5.0	2.0	50.0000	ND	65.5	30 - 134	34.1	20	R
Tetrachloroethene	35.9200	5.0	1.6	50.0000	ND	71.8	37 - 130	28.3	20	R
Toluene	82.0900	5.0	0.94	100.000	ND	82.1	45 - 122	18.7	20	
trans-1,2-Dichloroethene	45.1100	5.0	0.59	50.0000	ND	90.2	46 - 122	14.7	20	
trans-1,3-Dichloropropene	41.3200	5.0	2.1	50.0000	ND	82.6	44 - 124	12.0	20	
Trichloroethene	42.2200	5.0	3.1	50.0000	ND	84.4	36 - 142	16.9	20	
Trichlorofluoromethane	54.0400	5.0	1.4	50.0000	ND	108	37 - 135	16.9	20	
Vinyl acetate	408.290	50	9.8	500.000	ND	81.7	0 - 136	24.8	20	R
Vinyl chloride	64.8900	5.0	1.7	50.0000	ND	130	42 - 131	3.74	20	

Surrogate: 1,2-Dichloroethane-d4	50.23			50.0000		100	60 - 145			
Surrogate: 4-Bromofluorobenzene	47.33			50.0000		94.7	68 - 121			
Surrogate: Dibromofluoromethane	50.08			50.0000		100	65 - 137			
Surrogate: Toluene-d8	47.28			50.0000		94.6	82 - 119			

Matrix Spike Dup (B9D0901-MSD2)

Source: 1901424-02

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,1,1,2-Tetrachloroethane	40.1600	5.0	0.96	50.0000	ND	80.3	45 - 121	9.69	20	
1,1,1-Trichloroethane	43.2700	5.0	1.1	50.0000	ND	86.5	43 - 127	1.09	20	
1,1,2,2-Tetrachloroethane	39.0200	5.0	0.62	50.0000	ND	78.0	32 - 128	5.65	20	
1,1,2-Trichloroethane	43.5600	5.0	1.6	50.0000	ND	87.1	45 - 121	1.73	20	
1,1-Dichloroethane	41.3200	5.0	0.81	50.0000	ND	82.6	46 - 119	0.680	20	
1,1-Dichloroethene	44.4000	5.0	2.6	50.0000	ND	88.8	40 - 130	6.25	20	
1,1-Dichloropropene	43.6600	5.0	2.3	50.0000	ND	87.3	45 - 130	1.48	20	
1,2,3-Trichloropropane	43.6800	5.0	0.54	50.0000	ND	87.4	42 - 124	8.84	20	
1,2,3-Trichlorobenzene	28.7100	5.0	1.2	50.0000	ND	57.4	4 - 135	20.6	20	R
1,2,4-Trichlorobenzene	30.2200	5.0	1.1	50.0000	ND	60.4	8 - 141	14.8	20	
1,2,4-Trimethylbenzene	37.5700	5.0	1.5	50.0000	ND	75.1	30 - 136	6.09	20	
1,2-Dibromo-3-chloropropane	36.6700	10	1.6	50.0000	ND	73.3	38 - 132	9.11	20	
1,2-Dibromoethane	43.7600	5.0	3.2	50.0000	ND	87.5	45 - 121	2.19	20	



Certificate of Analysis

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

Project Number : LAUSD-Jordan HS, 11640
Report To : Ross Currency
Reported : 04/19/2019

Volatile Organic Compounds by EPA 8260B - 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 B9D0901 - MSVOA_S (continued)

Matrix Spike Dup (B9D0901-MSD2) - Continued

Source: 1901424-02

Prepared: 4/19/2019 Analyzed: 4/19/2019

1,2-Dichlorobenzene	35.3900	5.0	1.1	50.0000	ND	70.8	30 - 125	11.2	20	
1,2-Dichloroethane	43.4600	5.0	1.2	50.0000	ND	86.9	51 - 115	0.438	20	
1,2-Dichloropropane	39.9900	5.0	1.8	50.0000	ND	80.0	50 - 118	0.0250	20	
1,3,5-Trimethylbenzene	37.2200	5.0	1.7	50.0000	ND	74.4	29 - 137	8.96	20	
1,3-Dichlorobenzene	35.5200	5.0	1.3	50.0000	ND	71.0	30 - 124	11.3	20	
1,3-Dichloropropane	41.8000	5.0	1.1	50.0000	ND	83.6	49 - 116	1.37	20	
1,4-Dichlorobenzene	34.3400	5.0	1.2	50.0000	ND	68.7	31 - 124	14.1	20	
2,2-Dichloropropane	41.4800	5.0	1.2	50.0000	ND	83.0	41 - 134	5.27	20	
2-Chlorotoluene	36.7900	5.0	1.6	50.0000	ND	73.6	32 - 127	8.66	20	
4-Chlorotoluene	36.5500	5.0	1.5	50.0000	ND	73.1	34 - 124	7.53	20	
4-Isopropyltoluene	36.5800	5.0	2.3	50.0000	ND	73.2	26 - 141	10.7	20	
Benzene	83.4500	5.0	0.64	100.000	ND	83.4	48 - 117	1.68	20	
Bromobenzene	37.2500	5.0	1.1	50.0000	ND	74.5	40 - 117	12.2	20	
Bromochloromethane	42.1100	5.0	0.64	50.0000	ND	84.2	48 - 117	0.190	20	
Bromodichloromethane	42.4000	5.0	1.2	50.0000	ND	84.8	49 - 115	4.51	20	
Bromoform	40.6300	5.0	0.80	50.0000	ND	81.3	42 - 127	4.99	20	
Bromomethane	55.7000	5.0	2.5	50.0000	ND	111	19 - 157	2.41	20	
Carbon disulfide	39.2900	5.0	3.5	50.0000	ND	78.6	34 - 138	7.59	20	
Carbon tetrachloride	45.0200	5.0	1.2	50.0000	ND	90.0	43 - 130	4.22	20	
Chlorobenzene	39.5500	5.0	1.0	50.0000	ND	79.1	41 - 122	4.57	20	
Chloroethane	50.6400	5.0	1.1	50.0000	ND	101	32 - 145	14.2	20	
Chloroform	41.3000	5.0	0.82	50.0000	ND	82.6	46 - 118	2.03	20	
Chloromethane	54.4200	5.0	1.4	50.0000	ND	109	34 - 132	0.812	20	
cis-1,2-Dichloroethene	42.1200	5.0	0.67	50.0000	ND	84.2	44 - 119	3.90	20	
cis-1,3-Dichloropropene	47.4000	5.0	1.9	50.0000	ND	94.8	44 - 126	4.11	20	
Di-isopropyl ether	41.1900	5.0	0.55	50.0000	ND	82.4	42 - 126	0.460	20	
Dibromochloromethane	42.1400	5.0	1.0	50.0000	ND	84.3	46 - 119	2.16	20	
Dibromomethane	44.1600	5.0	1.6	50.0000	ND	88.3	52 - 114	5.33	20	
Dichlorodifluoromethane	64.0500	5.0	2.2	50.0000	ND	128	22 - 147	1.11	20	
Ethyl Acetate	300.600	50	8.1	500.000	ND	60.1	9 - 140	15.9	20	
Ethyl Ether	485.450	50	6.1	500.000	ND	97.1	45 - 131	5.19	20	
Ethyl tert-butyl ether	43.6900	5.0	0.67	50.0000	ND	87.4	33 - 138	3.26	20	
Ethylbenzene	78.2500	5.0	0.91	100.000	ND	78.2	38 - 131	3.32	20	
Freon-113	48.2400	5.0	2.8	50.0000	ND	96.5	38 - 140	8.99	20	
Hexachlorobutadiene	29.5100	5.0	2.5	50.0000	ND	59.0	4 - 141	18.5	20	
Isopropylbenzene	41.0100	5.0	1.8	50.0000	ND	82.0	35 - 133	4.57	20	
m,p-Xylene	81.1800	10	1.5	100.000	ND	81.2	38 - 130	5.80	20	
Methylene chloride	44.8000	5.0	2.3	50.0000	ND	89.6	26 - 137	1.10	20	
MTBE	42.8400	5.0	0.63	50.0000	ND	85.7	45 - 121	4.58	20	
n-Butylbenzene	33.3400	5.0	2.4	50.0000	ND	66.7	18 - 144	10.1	20	
n-Propylbenzene	37.3800	5.0	2.2	50.0000	ND	74.8	30 - 137	7.91	20	
Naphthalene	31.3000	5.0	0.97	50.0000	ND	62.6	14 - 137	13.1	20	



Certificate of Analysis

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Report To : Ross Surrency

Reported : 04/19/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9D0901 - MSVOA_S (continued)

Matrix Spike Dup (B9D0901-MSD2) - Continued

Source: 1901424-02

Prepared: 4/19/2019 Analyzed: 4/19/2019

o-Xylene	81.1400	5.0	0.87	100.000	ND	81.1	41 - 129	3.61	20	
sec-Butylbenzene	35.1100	5.0	2.3	50.0000	ND	70.2	24 - 140	12.0	20	
Styrene	40.6500	5.0	1.5	50.0000	ND	81.3	41 - 125	3.62	20	
tert-Amyl methyl ether	40.7300	5.0	0.59	50.0000	ND	81.5	31 - 133	0.758	20	
tert-Butanol	212.520	100	19	250.000	ND	85.0	0 - 201	5.72	20	
tert-Butylbenzene	37.8900	5.0	2.0	50.0000	ND	75.8	30 - 134	7.03	20	
Tetrachloroethene	38.7800	5.0	1.6	50.0000	ND	77.6	37 - 130	5.17	20	
Toluene	85.4000	5.0	0.94	100.000	ND	85.4	45 - 122	0.788	20	
trans-1,2-Dichloroethene	42.5700	5.0	0.59	50.0000	ND	85.1	46 - 122	6.73	20	
trans-1,3-Dichloropropene	42.3200	5.0	2.1	50.0000	ND	84.6	44 - 124	3.94	20	
Trichloroethene	42.5900	5.0	3.1	50.0000	ND	85.2	36 - 142	0.0705	20	
Trichlorofluoromethane	52.9700	5.0	1.4	50.0000	ND	106	37 - 135	6.79	20	
Vinyl acetate	93.3700	50	9.8	500.000	ND	18.7	0 - 136	65.1	20	R
Vinyl chloride	55.7200	5.0	1.7	50.0000	ND	111	42 - 131	10.5	20	
Surrogate: 1,2-Dichloroethane-d4	49.11			50.0000		98.2	60 - 145			
Surrogate: 4-Bromofluorobenzene	47.62			50.0000		95.2	68 - 121			
Surrogate: Dibromofluoromethane	50.11			50.0000		100	65 - 137			
Surrogate: Toluene-d8	48.63			50.0000		97.3	82 - 119			



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Irvine , CA 92614

Project Number : LAUSD-Jordan HS, 11640

Report To : Ross Surrency

Reported : 04/19/2019

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.
L4	Laboratory Control Sample outside of control limit but within Marginal Exceedance (ME) limit.
D6	Sample required dilution due to high concentration of target analyte.
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

Instruction: Complete all shaded areas.

Method of Transport		Sample Conditions Upon Receipt	
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	<input type="checkbox"/> Y	<input type="checkbox"/> N
<input type="checkbox"/> FedEx	<input type="checkbox"/> Onsite	<input type="checkbox"/> 1. CHILLED	<input type="checkbox"/> 5. # OF SAMPLES MATCH COC
<input type="checkbox"/> GSO	<input type="checkbox"/> Other:	<input type="checkbox"/> 2. HEADSPACE (N/A)	<input type="checkbox"/> 6. PRESERVED
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 3. CONTAINER IMPACT	<input type="checkbox"/> 7. COOLER TEMP. deg C
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 4. SEALED	<input type="checkbox"/>

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421		Fax:	
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		SEND REPORT TO:		SEND INVOICE TO:		Same as SEND REPORT TO		EDD		QA/QC	
Company: Leighton Consulting		Accounts Payable		Company: Leighton Group		Email: acctpayable@leightongroup.com				Excel		<input type="checkbox"/> Routine	
Address: 17781 Cowan		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		EDF		<input type="checkbox"/> Caltrans	
City: Irvine		City: Irvine		State: CA		State: CA		Zip: 92614		Equis		<input type="checkbox"/> Legal	
										Level IV		<input type="checkbox"/> RWQCB	
										Level IV		<input type="checkbox"/>	

Project Name: LAUSD - Jordan High School		Quote #: 11640.011		Sample Description		Requested Analysis		Sample Matrix		Turnaround Time (TAT)		Container		Remarks	
ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time											
1	1901527-01	Drum 1	4-16-19	1005	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
2															
3															
4															
5															
6															
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.		6. Liquid and solid samples will be disposed of after 45 calendar days from receipt of samples; all samples will be disposed of after 14 calendar days after receipt of samples.		10. Rush TCIP/STIC samples: add 2 days to analysis TAT for extraction procedure.	
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.		7. Electronic records maintained for five (5) years from report date.		11. Unanalyzed samples will incur a disposal fee of \$7 per sample.	
3. The following turnaround time conditions apply: TAT = 0 : 300% Surcharge SAME BUSINESS DAY if received by 8:00 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)		8. Hard copy reports will be disposed of after 45 calendar days from report date.		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.	
4. Weekend, holiday, after-hours work --- ask for quote.		9. Storage and Report Fees: - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$7/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			
5. Subcontract TAT is 10 - 15 business days. Projects requiring shorter TATs will incur a surcharge respective to the subcontract lab --- ask for quote.					

Relinquished by: (Signature and Printed Name)		Date: 4-16-19		Time: 12:28	
Relinquished by: (Signature and Printed Name)		Date: 4-16-19		Time: 12:28	
Relinquished by: (Signature and Printed Name)		Date: 4-16-19		Time: 12:28	
Relinquished by: (Signature and Printed Name)		Date: 4-16-19		Time: 12:28	

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Sabrina Gonzalez

Printed Name

Signature

APPENDIX E

WASTE MANIFEST



Leighton

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 1 / 1 Responsible for Payment: Transport Truck #: A07 Facility #: A07 Approval Number: A5-0461 Load #: 101011

Generator's Name and Billing Address: LOS ANGELES UNIFIED SCHOOL DISTRICT
OFFICE OF ENVIRONMENTAL HEALTH AND SAFETY
333 SOUTH BEAUDRY AVE, 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Phone #: 213-241-4122
Person to Contact:
FAX#:
Customer Account Number:

Consultant's Name and Billing Address:

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number:

Generation Site (Transport from): (name & address)
LAUSD - DAVID STARR JORDAN SENIOR HIGH SCHOOL
2265 EAST 103RD STREET
LOS ANGELES, CA 90002

Site Phone #:
Person to Contact:
FAX#:

Designated Facility (Transport to): (name & address)
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-8001
Person to Contact: JOE PROVANSAL
FAX#:
(760) 246-8004

Transporter Name and Mailing Address: BELSHIRE
25971 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 306024

Transporter's Phone #: 949-460-5200
Person to Contact: LARRY MOOTHART
FAX#: 949-460-5210
Customer Account Number: CAR000183813
450847

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	2 DM	Soil	110360	39122	17440
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					.63

List any exception to items listed above: Scale Ticket # 153197

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☒ Signature and date: Sabrina Gonzalez as Agent of LAUSD 05/20/19

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Carlos Villa Signature and date: Carlos Villa 05/24/19

Discrepancies: 2265EAST
2069967

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:
Print or Type Name: J. PROVANSAL / BILL BISHOP / BARRY MEEK Signature and date: 6-11-19

Generator and/or Consultant

Transporter

Recycling Facility

APPENDIX F

DATA SUMMARY TABLES AND LABORATORY
ANALYTICAL REPORTS FOR WASTE PROFILE
SAMPLES



Leighton

Table 1
Summary of Total Petroleum Hydrocarbon Results in Soil
 LAUSD - Jordan High School, Los Angeles, California

Sample ID	Depth (ft bgs)	Sample Date	EPA Method 8015B (mg/kg)		
			TPH-GRO	TPH-DRO	TPH-ORO
Regulatory Guidance Screening Levels (mg/kg)					
SFRWQCB ESLs ²			100	260	12,000
WP1-0.5	0.5	05/24/19	ND<1.0	410	1600
WP2-0.5	0.5	05/24/19	240	1000	2500
WP2-1.5	1.5	05/24/19	--	22	75
WP3-0.5	0.5	05/24/19	ND<1.0	150	640
WP4-0.5	0.5	05/24/19	ND<1.0	720	2700
WP4-1.5	1.5	05/24/19	--	120	580
WP5-0.5	0.5	05/24/19	ND<1.0	690	2300
WP5-1.5	1.5	05/24/19	--	21	87
WP6-0.5	0.5	05/24/19	ND<1.0	860	3100
WP6-1.5	1.5	05/24/19	--	120	810
WP7-0.5	0.5	05/24/19	ND<1.0	660	1700
WP7-1.5	1.5	05/24/19	--	42	210
WP8-0.5	0.5	05/24/19	ND<1.0	12	53
WP9-0.5	0.5	05/24/19	ND<1.0	32	120
WP10-0.5	0.5	05/24/19	ND<1.0	38	140
WP11-0.5	0.5	05/24/19	ND<1.0	19	46
WP12-0.5	0.5	05/24/19	ND<1.0	3.9	7.0
WP13-0.5	0.5	05/24/19	ND<1.0	45	140
WP14-0.5	0.5	05/24/19	ND<1.0	38	110

Notes and Abbreviations:

1. **Bold** value indicates analyte detected above the laboratory method detection limit (MDL). A yellow-shaded cell indicates a chemical concentration that exceeds a regulatory screening level.

2. San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (January 2019).

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)

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

ORO - oil range organics

mg/kg: milligram per kilogram

ft bgs: feet below ground surface

-- : not analyzed or no published value

Table 2
Summary of Organochlorine Pesticide Results in Soil
 LAUSD - Jordan High School, Los Angeles, California

Sample ID	Depth (ft bgs)	Sample Date	EPA Method 8081A (µg/kg)								
			Dichlorodiphenyldichloroethane (4,4'-DDD)	Dichlorodiphenyldichloroethylene (4,4'-DDE)	Dichlorodiphenyltrichloroethane (4,4'-DDT)	Alpha-Chlordane	Chlordane (technical)	Dieldrin	Gamma-Chlordane	Heptachlor	Toxaphene
WP1-0.5	0.5	05/24/19	61 J	250	ND<100	ND<50	ND<420	110	ND<50	ND<50	3600
WP2-0.5	0.5	05/24/19	0.80 J	38	4.7	0.75 J	6.4 J	0.69 J	ND<1.0	ND<1.0	ND<50
WP3-0.5	0.5	05/24/19	3.1	38	26	1.4	11	1.9 J	1.1	0.12 J	ND<50
WP4-0.5	0.5	05/24/19	4.4	37	28	1.0 J	16 J	3.6 J	ND<2.0	ND<2.0	ND<100
WP5-0.5	0.5	05/24/19	0.12 J	0.52 J	0.73 J	0.96 J	6.3 J	ND<2.0	ND<1.0	0.12 J	ND<50
WP6-0.5	0.5	05/24/19	ND<0.35	1.4 J	ND<0.50	4.1 J	31 J	ND<10	ND<5.0	ND<5.0	ND<250
WP7-0.5	0.5	05/24/19	ND<0.35	2.1 J	1.8 J	1.9 J	23 J	ND<10	ND<5.0	ND<5.0	ND<250
WP8-0.5	0.5	05/24/19	1.1 J	3.4	5.3	0.86 J	7.7 J	ND<2.0	0.95 J	ND<1.0	ND<50
WP9-0.5	0.5	05/24/19	0.98J	5.3	2.8	0.52 J	5.3 J	ND<2.0	ND<1.0	ND<1.0	ND<50
WP10-0.5	0.5	05/24/19	ND<2.0	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	ND<1.0	ND<50
WP11-0.5	0.5	05/24/19	17 J	140	110	ND<10	ND<85	20	ND<10	ND<10	ND<500
WP12-0.5	0.5	05/24/19	ND<2.0	0.42 J	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	ND<1.0	ND<50
WP13-0.5	0.5	05/24/19	0.44 J	1.4 J	ND<2.0	0.44 J	3.7 J	ND<2.0	ND<1.0	ND<1.0	ND<50
WP14-0.5	0.5	05/24/19	0.58 J	2.3	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	ND<1.0	ND<50
Regulatory Guidance Screening Levels (µg/kg)											
USEPA RSL²			1,900	2,000	1,900	--	1,700	34	--	130	490
DTSC SLs³			--	--	--	--	440	--	--	--	--

Notes and Abbreviations:

- 1. Bold** value indicates analyte detected above the laboratory practical quantitation limit (PQL). A yellow-shaded cell indicates a chemical concentration that exceeds a regulatory screening level.
- USEPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites (May 2019). 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, January 2019. Criteria selected: residential soil, lowest value of the cancer and non-cancer endpoint

ND: Analyte is not detected at or above the denoted PQL.

J: Estimated concentration. The value falls between the laboratory MDL and the PQL

µg/kg: microgram per kilogram

ft bgs: feet below ground surface

Table 3
Summary of Title 22 Metals Results in Soil
LAUSD - Jordan High School, Los Angeles, California

Sample ID	Sample Depth (feet bgs)	Sample Date	Title 22 Metals by EPA Method 6010B/7471A (mg/kg)																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
WP1-0.5	0.5	05/24/19	0.63	25	95	ND<1.0	0.48	13	7.4	23	40	0.08	ND<1.0	10	ND<1.0	ND<1.0	ND<1.0	26	120
WP1-1.5	1.5	05/24/19	--	47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WP2-0.5	0.5	05/24/19	0.53	7.6	79	ND<1.0	0.25	9.7	5.8	20	44	0.04	ND<1.0	11	ND<1.0	ND<1.0	ND<1.0	25	82
WP3-0.5	0.5	05/24/19	ND<2.0	5.5	130	ND<1.0	0.15	5.4	8.7	18	9.2	0.06	ND<1.0	4.9	ND<1.0	ND<1.0	ND<1.0	40	49
WP4-0.5	0.5	05/24/19	ND<2.0	3.4	74	ND<1.0	0.15	8.5	8.1	22	21	0.05	ND<1.0	11	ND<1.0	ND<1.0	ND<1.0	20	47
WP5-0.5	0.5	05/24/19	ND<2.0	3.1	70	ND<1.0	0.14	10	5.2	12	19	0.04	ND<1.0	12	ND<1.0	ND<1.0	ND<1.0	22	44
WP6-0.5	0.5	05/24/19	ND<2.0	2.2	63	ND<1.0	0.21	8.2	4	10	14	0.04	ND<1.0	9.7	ND<1.0	ND<1.0	ND<1.0	17	33
WP7-0.5	0.5	05/24/19	ND<0.04	0.05	1.3	ND<0.02	0.004	0.16	0.12	0.24	0.38	0.05	ND<0.02	0.22	ND<0.02	ND<0.02	ND<0.02	0.4	0.76
WP8-0.5	0.5	05/24/19	ND<2.0	7.7	100	ND<1.0	0.31	13	7.7	19	19	0.06	ND<1.0	9.7	0.53	ND<1.0	ND<1.0	26	76
WP9-0.5	0.5	05/24/19	ND<2.0	7.4	98	ND<1.0	0.38	13	7.6	25	23	0.06	ND<1.0	10	ND<1.0	ND<1.0	ND<1.0	27	110
WP10-0.5	0.5	05/24/19	ND<2.0	5.5	90	ND<1.0	0.32	12	6.7	24	24	0.05	ND<1.0	9.1	ND<1.0	ND<1.0	ND<1.0	24	99
WP11-0.5	0.5	05/24/19	ND<2.0	13	85	ND<1.0	0.42	12	6.1	48	39	0.08	ND<1.0	8.7	ND<1.0	ND<1.0	ND<1.0	24	110
WP12-0.5	0.5	05/24/19	ND<2.0	4.5	59	ND<1.0	ND<1.0	5.7	3.7	8.6	2.9	0.01	ND<1.0	3.8	ND<1.0	ND<1.0	ND<1.0	20	23
WP13-0.5	0.5	05/24/19	ND<2.0	4.3	84	ND<1.0	0.27	11	7.0	20	15	0.05	ND<1.0	8.9	ND<1.0	ND<1.0	ND<1.0	25	70
WP14-0.5	0.5	05/24/19	ND<2.0	4.1	86	ND<1.0	0.94	13	6.5	22	27	0.06	0.41	16	ND<1.0	ND<1.0	ND<1.0	24	100
Maximum Detected Concentration:			0.63	47	130	--	0.94	13	8.7	48	44	0.08	0.41	16	0.53	--	--	40	120
Regulatory Screening Levels																			
RSLs ¹			31	0.68	15,000	160	71	120,000*	23	3,100	400	11	390	1,500	390	390	0.78	390	23,000
LAUSD Arsenic and Lead ²			--	12	--	--	--	--	--	--	80	--	--	--	--	--	--	--	--

Notes:
1. RSLs, EPA Regional Screening Levels for Region IX, Updated April 2019, Criteria selected: Residential soil, Total Hazard Quotient = 1.0, Target risk of 1.0E-6
2. Los Angeles Unified School District Screening Values for Arsenic and Lead, based on Department of Toxic Substances Control acceptable limits for school properties.
Highlighted values exceed their respective regulatory screening levels.

Acronyms/Abbreviations:
bgs Below ground surface
mg/kg milligrams per kilogram
-- Not applicable or not available
< 1.0 Analyte not detected above the referenced detection limit
* Chromium III RSL



May 30, 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 : 1902114
Client Reference : LAUSD - Jordan High School, 11640.011

Enclosed are the results for sample(s) received on May, 24 2019 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 'Edgar Caballero', with a small 'for' written below the main signature.

Edgar Caballero
President & 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 - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP1-0.5	1902114-01	Soil	5/24/19 7:10	5/24/19 10:31
WP2-0.5	1902114-03	Soil	5/24/19 7:20	5/24/19 10:31
WP3-0.5	1902114-05	Soil	5/24/19 7:31	5/24/19 10:31
WP4-0.5	1902114-07	Soil	5/24/19 7:40	5/24/19 10:31
WP5-0.5	1902114-09	Soil	5/24/19 7:50	5/24/19 10:31
WP6-0.5	1902114-10	Soil	5/24/19 8:00	5/24/19 10:31
WP7-0.5	1902114-13	Soil	5/24/19 8:10	5/24/19 10:31
WP8-0.5	1902114-15	Soil	5/24/19 8:19	5/24/19 10:31
WP9-0.5	1902114-17	Soil	5/24/19 8:25	5/24/19 10:31
WP10-0.5	1902114-19	Soil	5/24/19 8:35	5/24/19 10:31
WP11-0.5	1902114-20	Soil	5/24/19 8:45	5/24/19 10:31
WP12-0.5	1902114-23	Soil	5/24/19 8:52	5/24/19 10:31
WP13-0.5	1902114-25	Soil	5/24/19 9:00	5/24/19 10:31
WP14-0.5	1902114-27	Soil	5/24/19 9:05	5/24/19 10:31

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 - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP1-0.5

Lab ID: 1902114-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	0.63	2.0	0.51	1	B9E0958	05/30/19 08:26	05/30/19 16:37	J
Arsenic	25	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:37	
Barium	95	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:37	
Cadmium	0.48	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:37	J
Chromium	13	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:37	
Cobalt	7.4	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:37	
Copper	23	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:37	
Lead	40	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:37	
Nickel	10	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:37	
Vanadium	26	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:37	
Zinc	120	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:37	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 13:38	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	410	50	50	50	B9E0938	05/29/19 09:30	05/30/19 02:22	
ORO	1600	50	50	50	B9E0938	05/29/19 09:30	05/30/19 02:22	



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP1-0.5

Lab ID: 1902114-01

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	61	100	3.5	50	B9E0937	05/28/19 15:00	05/30/19 14:13	J
4,4'-DDE	250	100	5.4	50	B9E0937	05/28/19 15:00	05/30/19 14:13	
Dieldrin [2C]	110	100	13	50	B9E0937	05/28/19 15:00	05/30/19 14:13	
Toxaphene [2C]	3600	2500	230	50	B9E0937	05/28/19 15:00	05/30/19 14:13	



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP2-0.5

Lab ID: 1902114-03

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	0.53	2.0	0.51	1	B9E0958	05/30/19 08:26	05/30/19 16:42	J
Arsenic	7.6	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:42	
Barium	79	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:42	
Cadmium	0.25	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:42	J
Chromium	9.7	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:42	
Cobalt	5.8	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:42	
Copper	20	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:42	
Lead	44	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:42	
Nickel	11	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:42	
Vanadium	25	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:42	
Zinc	82	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:42	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 13:49	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1000	100	100	100	B9E0938	05/29/19 09:30	05/30/19 03:28	
ORO	2500	100	100	100	B9E0938	05/29/19 09:30	05/30/19 03:28	



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP2-0.5

Lab ID: 1902114-03

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.80	2.0	0.07	1	B9E0937	05/28/19 15:00	05/30/19 04:09	J
4,4'-DDE	38	2.0	0.11	1	B9E0937	05/28/19 15:00	05/30/19 04:09	
4,4'-DDT	4.7	2.0	0.10	1	B9E0937	05/28/19 15:00	05/30/19 04:09	
alpha-Chlordane [2C]	0.75	1.0	0.12	1	B9E0937	05/28/19 15:00	05/30/19 04:09	J
Chlordane [2C]	6.4	8.5	1.1	1	B9E0937	05/28/19 15:00	05/30/19 04:09	J
Dieldrin	0.69	2.0	0.26	1	B9E0937	05/28/19 15:00	05/30/19 04:09	J



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP2-0.5

Lab ID: 1902114-03

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Methylene chloride	290	5.0	2.3	1	B9E0861	05/28/19 17:29	05/28/19 17:29	
Gasoline Range Organics	240	1000	230	1	B9E0861	05/28/19 17:29	05/28/19 17:29	J



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP3-0.5

Lab ID: 1902114-05

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.5	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:43	
Barium	130	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:43	
Cadmium	0.15	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:43	J
Chromium	5.4	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:43	
Cobalt	8.7	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:43	
Copper	18	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:43	
Lead	9.2	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:43	
Nickel	4.9	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:43	
Vanadium	40	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:43	
Zinc	49	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:43	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 13:51	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	150	10	10	10	B9E0938	05/29/19 09:30	05/30/19 01:32	
ORO	640	10	10	10	B9E0938	05/29/19 09:30	05/30/19 01:32	



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP3-0.5

Lab ID: 1902114-05

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	3.1	2.0	0.07	1	B9E0937	05/28/19 15:00	05/30/19 04:19	
4,4'-DDE [2C]	38	2.0	0.11	1	B9E0937	05/28/19 15:00	05/30/19 04:19	
4,4'-DDT [2C]	26	2.0	0.10	1	B9E0937	05/28/19 15:00	05/30/19 04:19	
alpha-Chlordane [2C]	1.4	1.0	0.12	1	B9E0937	05/28/19 15:00	05/30/19 04:19	
Chlordane [2C]	11	8.5	1.1	1	B9E0937	05/28/19 15:00	05/30/19 04:19	
Dieldrin	1.9	2.0	0.26	1	B9E0937	05/28/19 15:00	05/30/19 04:19	J
gamma-Chlordane	1.1	1.0	0.89	1	B9E0937	05/28/19 15:00	05/30/19 04:19	
Heptachlor [2C]	0.12	1.0	0.12	1	B9E0937	05/28/19 15:00	05/30/19 04:19	J



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP4-0.5

Lab ID: 1902114-07

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.4	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:44	
Barium	74	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:44	
Cadmium	0.15	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:44	J
Chromium	8.5	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:44	
Cobalt	8.1	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:44	
Copper	22	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:44	
Lead	21	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:44	
Nickel	11	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:44	
Vanadium	20	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:44	
Zinc	47	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:44	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 13:53	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	720	100	100	100	B9E0938	05/29/19 09:30	05/30/19 02:55	
ORO	2700	100	100	100	B9E0938	05/29/19 09:30	05/30/19 02:55	



Certificate of Analysis

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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP4-0.5

Lab ID: 1902114-07

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	4.4	4.0	0.14	2	B9E0937	05/28/19 15:00	05/30/19 04:30	
4,4'-DDE [2C]	37	4.0	0.22	2	B9E0937	05/28/19 15:00	05/30/19 04:30	
4,4'-DDT [2C]	28	4.0	0.20	2	B9E0937	05/28/19 15:00	05/30/19 04:30	
alpha-Chlordane	1.0	2.0	0.24	2	B9E0937	05/28/19 15:00	05/30/19 04:30	J
Chlordane [2C]	16	17	2.2	2	B9E0937	05/28/19 15:00	05/30/19 04:30	J
Dieldrin	3.6	4.0	0.53	2	B9E0937	05/28/19 15:00	05/30/19 04:30	J



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP5-0.5

Lab ID: 1902114-09

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.1	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:45	
Barium	70	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:45	
Cadmium	0.14	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:45	J
Chromium	10	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:45	
Cobalt	5.2	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:45	
Copper	12	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:45	
Lead	19	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:45	
Nickel	12	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:45	
Vanadium	22	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:45	
Zinc	44	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:45	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:00	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	690	100	100	100	B9E0938	05/29/19 09:30	05/30/19 03:12	
ORO	2300	100	100	100	B9E0938	05/29/19 09:30	05/30/19 03:12	



Certificate of Analysis

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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP5-0.5

Lab ID: 1902114-09

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.12	2.0	0.07	1	B9E0937	05/28/19 15:00	05/30/19 04:40	J
4,4'-DDE	0.52	2.0	0.11	1	B9E0937	05/28/19 15:00	05/30/19 04:40	J
4,4'-DDT	0.73	2.0	0.10	1	B9E0937	05/28/19 15:00	05/30/19 04:40	J
alpha-Chlordane [2C]	0.96	1.0	0.12	1	B9E0937	05/28/19 15:00	05/30/19 04:40	J
Chlordane [2C]	6.3	8.5	1.1	1	B9E0937	05/28/19 15:00	05/30/19 04:40	J
Heptachlor [2C]	0.12	1.0	0.12	1	B9E0937	05/28/19 15:00	05/30/19 04:40	J



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP6-0.5

Lab ID: 1902114-10

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.2	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:49	
Barium	63	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:49	
Cadmium	0.21	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:49	J
Chromium	8.2	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:49	
Cobalt	4.0	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:49	
Copper	10	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:49	
Lead	14	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:49	
Nickel	9.7	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:49	
Vanadium	17	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:49	
Zinc	33	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:49	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:02	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	860	100	100	100	B9E0938	05/29/19 09:30	05/30/19 02:38	
ORO	3100	100	100	100	B9E0938	05/29/19 09:30	05/30/19 02:38	



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP6-0.5

Lab ID: 1902114-10

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDE [2C]	1.4	10	0.54	5	B9E0937	05/28/19 15:00	05/30/19 11:53	J
alpha-Chlordane [2C]	4.1	5.0	0.59	5	B9E0937	05/28/19 15:00	05/30/19 11:53	J
Chlordane [2C]	31	42	5.5	5	B9E0937	05/28/19 15:00	05/30/19 11:53	J



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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP7-0.5

Lab ID: 1902114-13

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	0.05	0.02	0.002	1	B9E0958	05/30/19 08:26	05/30/19 16:50	
Barium	1.3	0.02	0.002	1	B9E0958	05/30/19 08:26	05/30/19 16:50	
Cadmium	0.004	0.02	0.003	1	B9E0958	05/30/19 08:26	05/30/19 16:50	J
Chromium	0.16	0.02	0.005	1	B9E0958	05/30/19 08:26	05/30/19 16:50	
Cobalt	0.12	0.02	0.001	1	B9E0958	05/30/19 08:26	05/30/19 16:50	
Copper	0.24	0.04	0.004	1	B9E0958	05/30/19 08:26	05/30/19 16:50	
Lead	0.38	0.02	0.004	1	B9E0958	05/30/19 08:26	05/30/19 16:50	
Nickel	0.22	0.02	0.004	1	B9E0958	05/30/19 08:26	05/30/19 16:50	
Vanadium	0.40	0.02	0.001	1	B9E0958	05/30/19 08:26	05/30/19 16:50	
Zinc	0.76	0.02	0.003	1	B9E0958	05/30/19 08:26	05/30/19 16:50	

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	0.05	0.10	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:04	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	660	100	100	100	B9E0938	05/29/19 09:30	05/30/19 04:02	
ORO	1700	100	100	100	B9E0938	05/29/19 09:30	05/30/19 04:02	



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP7-0.5

Lab ID: 1902114-13

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDE	2.1	10	0.54	5	B9E0937	05/28/19 15:00	05/30/19 13:39	J
4,4'-DDT	1.8	10	0.50	5	B9E0937	05/28/19 15:00	05/30/19 13:39	J
alpha-Chlordane	1.9	5.0	0.59	5	B9E0937	05/28/19 15:00	05/30/19 13:39	J
Chlordane [2C]	23	42	5.5	5	B9E0937	05/28/19 15:00	05/30/19 13:39	J



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17781 Cowan Street
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP8-0.5

Lab ID: 1902114-15

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	7.7	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:51	
Barium	100	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:51	
Cadmium	0.31	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:51	J
Chromium	13	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:51	
Cobalt	7.7	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:51	
Copper	19	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:51	
Lead	19	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:51	
Nickel	9.7	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:51	
Selenium	0.53	1.0	0.40	1	B9E0958	05/30/19 08:26	05/30/19 16:51	J
Vanadium	26	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:51	
Zinc	76	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:51	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:06	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	12	2.0	2.0	2	B9E0938	05/29/19 09:30	05/29/19 23:51	
ORO	53	2.0	2.0	2	B9E0938	05/29/19 09:30	05/29/19 23:51	



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP8-0.5

Lab ID: 1902114-15

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	1.1	2.0	0.07	1	B9E0937	05/28/19 15:00	05/30/19 05:22	J
4,4'-DDE [2C]	3.4	2.0	0.11	1	B9E0937	05/28/19 15:00	05/30/19 05:22	
4,4'-DDT [2C]	5.3	2.0	0.10	1	B9E0937	05/28/19 15:00	05/30/19 05:22	
alpha-Chlordane [2C]	0.86	1.0	0.12	1	B9E0937	05/28/19 15:00	05/30/19 05:22	J
Chlordane	7.7	8.5	1.1	1	B9E0937	05/28/19 15:00	05/30/19 05:22	J
gamma-Chlordane	0.95	1.0	0.89	1	B9E0937	05/28/19 15:00	05/30/19 05:22	J



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP9-0.5

Lab ID: 1902114-17

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	7.4	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:52	
Barium	98	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:52	
Cadmium	0.38	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:52	J
Chromium	13	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:52	
Cobalt	7.6	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:52	
Copper	25	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:52	
Lead	23	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:52	
Nickel	10	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:52	
Vanadium	27	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:52	
Zinc	110	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:52	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:09	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	32	2.0	2.0	2	B9E0938	05/29/19 09:30	05/30/19 00:58	
ORO	120	2.0	2.0	2	B9E0938	05/29/19 09:30	05/30/19 00:58	



Certificate of Analysis

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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP9-0.5

Lab ID: 1902114-17

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	0.98	2.0	0.07	1	B9E0937	05/28/19 15:00	05/30/19 05:33	J
4,4'-DDE	5.3	2.0	0.11	1	B9E0937	05/28/19 15:00	05/30/19 05:33	
4,4'-DDT	2.8	2.0	0.10	1	B9E0937	05/28/19 15:00	05/30/19 05:33	
alpha-Chlordane	0.52	1.0	0.12	1	B9E0937	05/28/19 15:00	05/30/19 05:33	J
Chlordane [2C]	5.3	8.5	1.1	1	B9E0937	05/28/19 15:00	05/30/19 05:33	J



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP10-0.5
Lab ID: 1902114-19

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	5.5	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:53	
Barium	90	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:53	
Cadmium	0.32	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:53	J
Chromium	12	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:53	
Cobalt	6.7	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:53	
Copper	24	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:53	
Lead	24	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:53	
Nickel	9.1	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:53	
Vanadium	24	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:53	
Zinc	99	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:53	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:11	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	38	2.0	2.0	2	B9E0938	05/29/19 09:30	05/30/19 01:15	
ORO	140	2.0	2.0	2	B9E0938	05/29/19 09:30	05/30/19 01:15	



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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP11-0.5
Lab ID: 1902114-20

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	13	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:55	
Barium	85	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:55	
Cadmium	0.42	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:55	J
Chromium	12	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:55	
Cobalt	6.1	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:55	
Copper	48	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:55	
Lead	39	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:55	
Nickel	8.7	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:55	
Vanadium	24	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:55	
Zinc	110	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:55	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:13	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	19	1.0	1.0	1	B9E0938	05/29/19 09:30	05/29/19 23:35	
ORO	46	1.0	1.0	1	B9E0938	05/29/19 09:30	05/29/19 23:35	



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP11-0.5

Lab ID: 1902114-20

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	17	20	0.70	10	B9E0937	05/28/19 15:00	05/30/19 11:43	J
4,4'-DDE	140	20	1.1	10	B9E0937	05/28/19 15:00	05/30/19 11:43	
4,4'-DDT [2C]	110	20	1.0	10	B9E0937	05/28/19 15:00	05/30/19 11:43	
Dieldrin [2C]	20	20	2.6	10	B9E0937	05/28/19 15:00	05/30/19 11:43	



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17781 Cowan Street
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY Client Sample ID WP12-0.5 Lab ID: 1902114-23

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.5	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:56	
Barium	59	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:56	
Chromium	5.7	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:56	
Cobalt	3.7	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:56	
Copper	8.6	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:56	
Lead	2.9	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:56	
Nickel	3.8	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:56	
Vanadium	20	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:56	
Zinc	23	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:56	

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	0.01	0.10	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:15	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.9	1.0	1.0	1	B9E0938	05/29/19 09:30	05/29/19 23:18	
ORO	7.0	1.0	1.0	1	B9E0938	05/29/19 09:30	05/29/19 23:18	



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP12-0.5

Lab ID: 1902114-23

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDE	0.42	2.0	0.11	1	B9E0937	05/28/19 15:00	05/30/19 06:15 J	



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY Client Sample ID WP13-0.5 Lab ID: 1902114-25

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.3	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:57	
Barium	84	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:57	
Cadmium	0.27	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:57	J
Chromium	11	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:57	
Cobalt	7.0	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:57	
Copper	20	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:57	
Lead	15	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:57	
Nickel	8.9	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:57	
Vanadium	25	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:57	
Zinc	70	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:57	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:17	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	45	2.0	2.0	2	B9E0938	05/29/19 09:30	05/30/19 00:25	
ORO	140	2.0	2.0	2	B9E0938	05/29/19 09:30	05/30/19 00:25	



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP13-0.5

Lab ID: 1902114-25

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	0.44	2.0	0.07	1	B9E0937	05/28/19 15:00	05/30/19 06:25	J
4,4'-DDE	1.4	2.0	0.11	1	B9E0937	05/28/19 15:00	05/30/19 06:25	J
alpha-Chlordane	0.44	1.0	0.12	1	B9E0937	05/28/19 15:00	05/30/19 06:25	J
Chlordane [2C]	3.7	8.5	1.1	1	B9E0937	05/28/19 15:00	05/30/19 06:25	J



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP14-0.5
Lab ID: 1902114-27

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	4.1	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:58	
Barium	86	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:58	
Cadmium	0.94	1.0	0.14	1	B9E0958	05/30/19 08:26	05/30/19 16:58	J
Chromium	13	1.0	0.26	1	B9E0958	05/30/19 08:26	05/30/19 16:58	
Cobalt	6.5	1.0	0.07	1	B9E0958	05/30/19 08:26	05/30/19 16:58	
Copper	22	2.0	0.19	1	B9E0958	05/30/19 08:26	05/30/19 16:58	
Lead	27	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:58	
Molybdenum	0.41	1.0	0.12	1	B9E0958	05/30/19 08:26	05/30/19 16:58	J
Nickel	16	1.0	0.18	1	B9E0958	05/30/19 08:26	05/30/19 16:58	
Vanadium	24	1.0	0.06	1	B9E0958	05/30/19 08:26	05/30/19 16:58	
Zinc	100	1.0	0.15	1	B9E0958	05/30/19 08:26	05/30/19 16:58	

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	0.007	1	B9E0959	05/30/19 08:35	05/30/19 14:19	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	38	2.0	2.0	2	B9E0938	05/29/19 09:30	05/30/19 00:08	
ORO	110	2.0	2.0	2	B9E0938	05/29/19 09:30	05/30/19 00:08	



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

DETECTION SUMMARY

Client Sample ID WP14-0.5

Lab ID: 1902114-27

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	0.58	2.0	0.07	1	B9E0937	05/28/19 15:00	05/30/19 06:35	J
4,4'-DDE [2C]	2.3	2.0	0.11	1	B9E0937	05/28/19 15:00	05/30/19 06:35	



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP1-0.5

Lab ID: 1902114-01

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	0.63	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:37	J
Arsenic	25	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:37	
Barium	95	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:37	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:37	
Cadmium	0.48	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:37	J
Chromium	13	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:37	
Cobalt	7.4	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:37	
Copper	23	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:37	
Lead	40	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:37	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:37	
Nickel	10	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:37	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:37	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:37	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:37	
Vanadium	26	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:37	
Zinc	120	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:37	

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	0.007	1	B9E0959	05/30/2019	05/30/19 13:38	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	410	50	50	50	B9E0938	05/29/2019	05/30/19 02:22	
ORO	1600	50	50	50	B9E0938	05/29/2019	05/30/19 02:22	
<i>Surrogate: p-Terphenyl</i>	<i>78.1 %</i>		<i>34 - 158</i>		B9E0938	05/29/2019	<i>05/30/19 02:22</i>	



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP1-0.5

Lab ID: 1902114-01

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	61	100	3.5	50	B9E0937	05/28/2019	05/30/19 14:13	J
4,4'-DDE	250	100	5.4	50	B9E0937	05/28/2019	05/30/19 14:13	
4,4'-DDT	ND	100	5.0	50	B9E0937	05/28/2019	05/30/19 14:13	
Aldrin	ND	50	6.2	50	B9E0937	05/28/2019	05/30/19 14:13	
alpha-BHC	ND	50	5.3	50	B9E0937	05/28/2019	05/30/19 14:13	
alpha-Chlordane	ND	50	5.9	50	B9E0937	05/28/2019	05/30/19 14:13	
beta-BHC	ND	50	3.0	50	B9E0937	05/28/2019	05/30/19 14:13	
Chlordane	ND	420	55	50	B9E0937	05/28/2019	05/30/19 14:13	
delta-BHC	ND	50	6.2	50	B9E0937	05/28/2019	05/30/19 14:13	
Dieldrin [2C]	110	100	13	50	B9E0937	05/28/2019	05/30/19 14:13	
Endosulfan I	ND	50	5.0	50	B9E0937	05/28/2019	05/30/19 14:13	
Endosulfan II	ND	100	7.7	50	B9E0937	05/28/2019	05/30/19 14:13	
Endosulfan sulfate	ND	100	8.0	50	B9E0937	05/28/2019	05/30/19 14:13	
Endrin	ND	100	6.8	50	B9E0937	05/28/2019	05/30/19 14:13	
Endrin aldehyde	ND	100	16	50	B9E0937	05/28/2019	05/30/19 14:13	
Endrin ketone	ND	100	6.3	50	B9E0937	05/28/2019	05/30/19 14:13	
gamma-BHC	ND	50	5.2	50	B9E0937	05/28/2019	05/30/19 14:13	
gamma-Chlordane	ND	50	44	50	B9E0937	05/28/2019	05/30/19 14:13	
Heptachlor	ND	50	5.9	50	B9E0937	05/28/2019	05/30/19 14:13	
Heptachlor epoxide	ND	50	4.4	50	B9E0937	05/28/2019	05/30/19 14:13	
Methoxychlor	ND	250	8.9	50	B9E0937	05/28/2019	05/30/19 14:13	
Toxaphene [2C]	3600	2500	230	50	B9E0937	05/28/2019	05/30/19 14:13	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0%</i>	<i>32 - 91</i>			B9E0937	05/28/2019	<i>05/30/19 14:13</i>	<i>S4</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0%</i>	<i>38 - 93</i>			B9E0937	05/28/2019	<i>05/30/19 14:13</i>	<i>S4</i>



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP1-0.5

Lab ID: 1902114-01

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 12:45	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 12:45	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 12:45	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 12:45	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 12:45	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 12:45	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 12:45	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 12:45	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 12:45	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 12:45	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 12:45	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 12:45	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 12:45	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 12:45	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 12:45	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 12:45	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 12:45	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 12:45	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 12:45	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 12:45	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 12:45	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 12:45	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 12:45	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 12:45	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 12:45	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 12:45	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 12:45	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 12:45	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 12:45	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP1-0.5

Lab ID: 1902114-01

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 12:45	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 12:45	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 12:45	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 12:45	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 12:45	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 12:45	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 12:45	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 12:45	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 12:45	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 12:45	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 12:45	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 12:45	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 12:45	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 12:45	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 12:45	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 12:45	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 12:45	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 12:45	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 12:45	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 12:45	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 12:45	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 12:45	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 12:45	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 12:45	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 12:45	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 12:45	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 12:45	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 12:45	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 12:45	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 12:45	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 12:45	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 12:45	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 12:45	

Surrogate: 1,2-Dichloroethane-d4	83.5 %	60 - 145	B9E0861	05/28/2019	05/28/19 12:45
Surrogate: 1,2-Dichloroethane-d4	97.0 %	60 - 145	B9E0861	05/28/2019	05/28/19 12:45
Surrogate: 4-Bromofluorobenzene	92.3 %	68 - 121	B9E0861	05/28/2019	05/28/19 12:45
Surrogate: 4-Bromofluorobenzene	89.4 %	68 - 121	B9E0861	05/28/2019	05/28/19 12:45



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Client Sample ID WP1-0.5

Lab ID: 1902114-01

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	100 %	65 - 137		B9E0861	05/28/2019	05/28/19 12:45	
Surrogate: Dibromofluoromethane	85.8 %	65 - 137		B9E0861	05/28/2019	05/28/19 12:45	
Surrogate: Toluene-d8	90.5 %	82 - 119		B9E0861	05/28/2019	05/28/19 12:45	
Surrogate: Toluene-d8	90.2 %	82 - 119		B9E0861	05/28/2019	05/28/19 12:45	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	33000	7100	100	B9E0909	05/28/2019	05/29/19 16:05	D1
1,2-Dichlorobenzene	ND	33000	6000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
1,3-Dichlorobenzene	ND	33000	6500	100	B9E0909	05/28/2019	05/29/19 16:05	D1
1,4-Dichlorobenzene	ND	33000	6000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2,4,5-Trichlorophenol	ND	33000	6100	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2,4,6-Trichlorophenol	ND	33000	22000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2,4-Dichlorophenol	ND	160000	12000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2,4-Dimethylphenol	ND	33000	12000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2,4-Dinitrophenol	ND	160000	8600	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2,4-Dinitrotoluene	ND	33000	4600	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2,6-Dinitrotoluene	ND	33000	4900	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2-Chloronaphthalene	ND	33000	5900	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2-Chlorophenol	ND	33000	12000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2-Methylnaphthalene	ND	33000	6700	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2-Methylphenol	ND	33000	6700	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2-Nitroaniline	ND	160000	20000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
2-Nitrophenol	ND	33000	11000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
3,3'-Dichlorobenzidine	ND	66000	28000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
3-Nitroaniline	ND	160000	4400	100	B9E0909	05/28/2019	05/29/19 16:05	D1
4,6-Dinitro-2-methylphenol	ND	160000	30000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
4-Bromophenyl-phenylether	ND	33000	5000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
4-Chloro-3-methylphenol	ND	66000	11000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
4-Chloroaniline	ND	66000	5300	100	B9E0909	05/28/2019	05/29/19 16:05	D1
4-Chlorophenyl-phenylether	ND	33000	4800	100	B9E0909	05/28/2019	05/29/19 16:05	D1
4-Methylphenol	ND	33000	6600	100	B9E0909	05/28/2019	05/29/19 16:05	D1
4-Nitroaniline	ND	160000	29000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
4-Nitrophenol	ND	33000	15000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Acenaphthene	ND	33000	4800	100	B9E0909	05/28/2019	05/29/19 16:05	D1



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Client Sample ID WP1-0.5

Lab ID: 1902114-01

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	33000	5100	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Anthracene	ND	33000	4900	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Benzidine (M)	ND	160000	140000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Benzo(a)anthracene	ND	33000	3900	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Benzo(a)pyrene	ND	33000	4500	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Benzo(b)fluoranthene	ND	33000	5500	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Benzo(g,h,i)perylene	ND	33000	3800	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Benzo(k)fluoranthene	ND	33000	5200	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Benzoic acid	ND	160000	89000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Benzyl alcohol	ND	66000	6700	100	B9E0909	05/28/2019	05/29/19 16:05	D1
bis(2-chloroethoxy)methane	ND	33000	5900	100	B9E0909	05/28/2019	05/29/19 16:05	D1
bis(2-Chloroethyl)ether	ND	33000	5700	100	B9E0909	05/28/2019	05/29/19 16:05	D1
bis(2-chloroisopropyl)ether	ND	33000	6500	100	B9E0909	05/28/2019	05/29/19 16:05	D1
bis(2-ethylhexyl)phthalate	ND	33000	8300	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Butylbenzylphthalate	ND	33000	25000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Chrysene	ND	33000	4300	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Di-n-butylphthalate	ND	33000	23000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Di-n-octylphthalate	ND	33000	4800	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Dibenz(a,h)anthracene	ND	33000	4300	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Dibenzofuran	ND	33000	5500	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Diethyl phthalate	ND	33000	4700	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Dimethyl phthalate	ND	33000	4600	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Fluoranthene	ND	33000	4700	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Fluorene	ND	33000	4900	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Hexachlorobenzene	ND	33000	4100	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Hexachlorobutadiene	ND	66000	6100	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Hexachlorocyclopentadiene	ND	66000	6400	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Hexachloroethane	ND	33000	7100	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Indeno(1,2,3-cd)pyrene	ND	33000	4400	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Isophorone	ND	33000	5700	100	B9E0909	05/28/2019	05/29/19 16:05	D1
N-Nitroso-di-n propylamine	ND	33000	6500	100	B9E0909	05/28/2019	05/29/19 16:05	D1
N-Nitrosodiphenylamine	ND	33000	4800	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Naphthalene	ND	33000	6000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Nitrobenzene	ND	33000	6700	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Pentachlorophenol	ND	160000	19000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Phenanthrene	ND	33000	4600	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Phenol	ND	33000	13000	100	B9E0909	05/28/2019	05/29/19 16:05	D1



Certificate of Analysis

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Client Sample ID WP1-0.5

Lab ID: 1902114-01

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	33000	5300	100	B9E0909	05/28/2019	05/29/19 16:05	D1
Pyridine	ND	160000	27000	100	B9E0909	05/28/2019	05/29/19 16:05	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 16:05</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 16:05</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 16:05</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 16:05</i>	<i>S4</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>0%</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 16:05</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 16:05</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 16:05</i>	<i>S4</i>
<i>Surrogate: Phenol-d6</i>	<i>0%</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 16:05</i>	<i>S4</i>



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Client Sample ID WP2-0.5

Lab ID: 1902114-03

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	0.53	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:42	J
Arsenic	7.6	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:42	
Barium	79	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:42	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:42	
Cadmium	0.25	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:42	J
Chromium	9.7	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:42	
Cobalt	5.8	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:42	
Copper	20	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:42	
Lead	44	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:42	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:42	
Nickel	11	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:42	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:42	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:42	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:42	
Vanadium	25	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:42	
Zinc	82	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:42	

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	0.007	1	B9E0959	05/30/2019	05/30/19 13:49	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	1000	100	100	100	B9E0938	05/29/2019	05/30/19 03:28	
ORO	2500	100	100	100	B9E0938	05/29/2019	05/30/19 03:28	
<i>Surrogate: p-Terphenyl</i>	<i>63.7 %</i>		<i>34 - 158</i>		B9E0938	05/29/2019	<i>05/30/19 03:28</i>	



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Lab ID: 1902114-03

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.80	2.0	0.07	1	B9E0937	05/28/2019	05/30/19 04:09	J
4,4'-DDE	38	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 04:09	
4,4'-DDT	4.7	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:09	
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:09	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 04:09	
alpha-Chlordane [2C]	0.75	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:09	J
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 04:09	
Chlordane [2C]	6.4	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 04:09	J
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:09	
Dieldrin	0.69	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 04:09	J
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:09	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 04:09	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 04:09	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 04:09	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 04:09	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 04:09	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:09	
gamma-Chlordane [2C]	ND	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 04:09	
Heptachlor	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:09	
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 04:09	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 04:09	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 04:09	
<i>Surrogate: Decachlorobiphenyl</i>	<i>47.2 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 04:09</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>61.6 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 04:09</i>	



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
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Client Sample ID WP2-0.5

Lab ID: 1902114-03

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
Aroclor 1221	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
Aroclor 1232	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
Aroclor 1242	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
Aroclor 1248	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
Aroclor 1254	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
Aroclor 1260	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
Aroclor 1262	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
Aroclor 1268	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:18	
<i>Surrogate: Decachlorobiphenyl</i>	83.4 %		38 - 117		B9E0937	05/28/2019	05/29/19 17:18	
<i>Surrogate: Tetrachloro-m-xylene</i>	72.2 %		39 - 121		B9E0937	05/28/2019	05/29/19 17:18	

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 17:29	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 17:29	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 17:29	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 17:29	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 17:29	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 17:29	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 17:29	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 17:29	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 17:29	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 17:29	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 17:29	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 17:29	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 17:29	



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Client Sample ID WP2-0.5

Lab ID: 1902114-03

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 17:29	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 17:29	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 17:29	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 17:29	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 17:29	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 17:29	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 17:29	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 17:29	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 17:29	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 17:29	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 17:29	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 17:29	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 17:29	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 17:29	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 17:29	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 17:29	
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 17:29	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 17:29	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 17:29	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 17:29	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 17:29	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 17:29	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 17:29	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 17:29	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 17:29	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 17:29	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 17:29	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 17:29	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 17:29	
Methylene chloride	290	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 17:29	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 17:29	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 17:29	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 17:29	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 17:29	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 17:29	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 17:29	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 17:29	



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Client Sample ID WP2-0.5

Lab ID: 1902114-03

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 17:29	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 17:29	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 17:29	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 17:29	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 17:29	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 17:29	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 17:29	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 17:29	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 17:29	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 17:29	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 17:29	
Gasoline Range Organics	240	1000	230	1	B9E0861	05/28/2019	05/28/19 17:29	J
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>	<i>60 - 145</i>			B9E0861	05/28/2019	<i>05/28/19 17:29</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>123 %</i>	<i>60 - 145</i>			B9E0861	05/28/2019	<i>05/28/19 17:29</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.4 %</i>	<i>68 - 121</i>			B9E0861	05/28/2019	<i>05/28/19 17:29</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.1 %</i>	<i>68 - 121</i>			B9E0861	05/28/2019	<i>05/28/19 17:29</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>109 %</i>	<i>65 - 137</i>			B9E0861	05/28/2019	<i>05/28/19 17:29</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>93.2 %</i>	<i>65 - 137</i>			B9E0861	05/28/2019	<i>05/28/19 17:29</i>	
<i>Surrogate: Toluene-d8</i>	<i>93.5 %</i>	<i>82 - 119</i>			B9E0861	05/28/2019	<i>05/28/19 17:29</i>	
<i>Surrogate: Toluene-d8</i>	<i>93.6 %</i>	<i>82 - 119</i>			B9E0861	05/28/2019	<i>05/28/19 17:29</i>	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	33000	7100	100	B9E0909	05/28/2019	05/29/19 16:32	D1
1,2-Dichlorobenzene	ND	33000	6000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
1,3-Dichlorobenzene	ND	33000	6500	100	B9E0909	05/28/2019	05/29/19 16:32	D1
1,4-Dichlorobenzene	ND	33000	6000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2,4,5-Trichlorophenol	ND	33000	6100	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2,4,6-Trichlorophenol	ND	33000	22000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2,4-Dichlorophenol	ND	160000	12000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2,4-Dimethylphenol	ND	33000	12000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2,4-Dinitrophenol	ND	160000	8600	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2,4-Dinitrotoluene	ND	33000	4600	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2,6-Dinitrotoluene	ND	33000	4900	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2-Chloronaphthalene	ND	33000	5900	100	B9E0909	05/28/2019	05/29/19 16:32	D1



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Client Sample ID WP2-0.5

Lab ID: 1902114-03

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorophenol	ND	33000	12000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2-Methylnaphthalene	ND	33000	6700	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2-Methylphenol	ND	33000	6700	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2-Nitroaniline	ND	160000	20000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
2-Nitrophenol	ND	33000	11000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
3,3'-Dichlorobenzidine	ND	66000	28000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
3-Nitroaniline	ND	160000	4400	100	B9E0909	05/28/2019	05/29/19 16:32	D1
4,6-Dinitro-2-methylphenol	ND	160000	30000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
4-Bromophenyl-phenylether	ND	33000	5000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
4-Chloro-3-methylphenol	ND	66000	11000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
4-Chloroaniline	ND	66000	5300	100	B9E0909	05/28/2019	05/29/19 16:32	D1
4-Chlorophenyl-phenylether	ND	33000	4800	100	B9E0909	05/28/2019	05/29/19 16:32	D1
4-Methylphenol	ND	33000	6600	100	B9E0909	05/28/2019	05/29/19 16:32	D1
4-Nitroaniline	ND	160000	29000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
4-Nitrophenol	ND	33000	15000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Acenaphthene	ND	33000	4800	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Acenaphthylene	ND	33000	5100	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Anthracene	ND	33000	4900	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Benzidine (M)	ND	160000	140000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Benzo(a)anthracene	ND	33000	3900	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Benzo(a)pyrene	ND	33000	4500	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Benzo(b)fluoranthene	ND	33000	5500	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Benzo(g,h,i)perylene	ND	33000	3800	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Benzo(k)fluoranthene	ND	33000	5200	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Benzoic acid	ND	160000	89000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Benzyl alcohol	ND	66000	6700	100	B9E0909	05/28/2019	05/29/19 16:32	D1
bis(2-chloroethoxy)methane	ND	33000	5900	100	B9E0909	05/28/2019	05/29/19 16:32	D1
bis(2-Chloroethyl)ether	ND	33000	5700	100	B9E0909	05/28/2019	05/29/19 16:32	D1
bis(2-chloroisopropyl)ether	ND	33000	6500	100	B9E0909	05/28/2019	05/29/19 16:32	D1
bis(2-ethylhexyl)phthalate	ND	33000	8300	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Butylbenzylphthalate	ND	33000	25000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Chrysene	ND	33000	4300	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Di-n-butylphthalate	ND	33000	23000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Di-n-octylphthalate	ND	33000	4800	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Dibenz(a,h)anthracene	ND	33000	4300	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Dibenzofuran	ND	33000	5500	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Diethyl phthalate	ND	33000	4700	100	B9E0909	05/28/2019	05/29/19 16:32	D1



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Lab ID: 1902114-03

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dimethyl phthalate	ND	33000	4600	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Fluoranthene	ND	33000	4700	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Fluorene	ND	33000	4900	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Hexachlorobenzene	ND	33000	4100	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Hexachlorobutadiene	ND	66000	6100	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Hexachlorocyclopentadiene	ND	66000	6400	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Hexachloroethane	ND	33000	7100	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Indeno(1,2,3-cd)pyrene	ND	33000	4400	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Isophorone	ND	33000	5700	100	B9E0909	05/28/2019	05/29/19 16:32	D1
N-Nitroso-di-n propylamine	ND	33000	6500	100	B9E0909	05/28/2019	05/29/19 16:32	D1
N-Nitrosodiphenylamine	ND	33000	4800	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Naphthalene	ND	33000	6000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Nitrobenzene	ND	33000	6700	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Pentachlorophenol	ND	160000	19000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Phenanthrene	ND	33000	4600	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Phenol	ND	33000	13000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Pyrene	ND	33000	5300	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Pyridine	ND	160000	27000	100	B9E0909	05/28/2019	05/29/19 16:32	D1
Surrogate: 1,2-Dichlorobenzene-d4	0%		16 - 87		B9E0909	05/28/2019	05/29/19 16:32	S4
Surrogate: 2,4,6-Tribromophenol	0%		0 - 148		B9E0909	05/28/2019	05/29/19 16:32	S4
Surrogate: 2-Chlorophenol-d4	0%		17 - 96		B9E0909	05/28/2019	05/29/19 16:32	S4
Surrogate: 2-Fluorobiphenyl	0%		16 - 107		B9E0909	05/28/2019	05/29/19 16:32	S4
Surrogate: 2-Fluorophenol	0%		16 - 86		B9E0909	05/28/2019	05/29/19 16:32	S4
Surrogate: 4-Terphenyl-d14	0%		3 - 156		B9E0909	05/28/2019	05/29/19 16:32	S4
Surrogate: Nitrobenzene-d5	0%		16 - 99		B9E0909	05/28/2019	05/29/19 16:32	S4
Surrogate: Phenol-d6	0%		17 - 90		B9E0909	05/28/2019	05/29/19 16:32	S4



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
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Client Sample ID WP3-0.5

Lab ID: 1902114-05

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:43	
Arsenic	5.5	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:43	
Barium	130	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:43	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:43	
Cadmium	0.15	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:43	J
Chromium	5.4	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:43	
Cobalt	8.7	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:43	
Copper	18	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:43	
Lead	9.2	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:43	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:43	
Nickel	4.9	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:43	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:43	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:43	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:43	
Vanadium	40	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:43	
Zinc	49	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:43	

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	0.007	1	B9E0959	05/30/2019	05/30/19 13:51	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	150	10	10	10	B9E0938	05/29/2019	05/30/19 01:32	
ORO	640	10	10	10	B9E0938	05/29/2019	05/30/19 01:32	
Surrogate: p-Terphenyl	113 %		34 - 158		B9E0938	05/29/2019	05/30/19 01:32	



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Lab ID: 1902114-05

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	3.1	2.0	0.07	1	B9E0937	05/28/2019	05/30/19 04:19	
4,4'-DDE [2C]	38	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 04:19	
4,4'-DDT [2C]	26	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:19	
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:19	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 04:19	
alpha-Chlordane [2C]	1.4	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:19	
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 04:19	
Chlordane [2C]	11	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 04:19	
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:19	
Dieldrin	1.9	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 04:19	J
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:19	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 04:19	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 04:19	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 04:19	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 04:19	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 04:19	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:19	
gamma-Chlordane	1.1	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 04:19	
Heptachlor [2C]	0.12	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:19	J
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 04:19	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 04:19	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 04:19	
<i>Surrogate: Decachlorobiphenyl</i>	<i>36.9 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 04:19</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>52.2 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 04:19</i>	



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Client Sample ID WP3-0.5

Lab ID: 1902114-05

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 13:22	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:22	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 13:22	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 13:22	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 13:22	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 13:22	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:22	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 13:22	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 13:22	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 13:22	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:22	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:22	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:22	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 13:22	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 13:22	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 13:22	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 13:22	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:22	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 13:22	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:22	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 13:22	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 13:22	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 13:22	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:22	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 13:22	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:22	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 13:22	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 13:22	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 13:22	



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Client Sample ID WP3-0.5

Lab ID: 1902114-05

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 13:22	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 13:22	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 13:22	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 13:22	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 13:22	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 13:22	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 13:22	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 13:22	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 13:22	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 13:22	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 13:22	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 13:22	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 13:22	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 13:22	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 13:22	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 13:22	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 13:22	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 13:22	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 13:22	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 13:22	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 13:22	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 13:22	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 13:22	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 13:22	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 13:22	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 13:22	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 13:22	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 13:22	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 13:22	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 13:22	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 13:22	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 13:22	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 13:22	
Surrogate: 1,2-Dichloroethane-d4	85.2 %		60 - 145		B9E0861	05/28/2019	05/28/19 13:22	
Surrogate: 1,2-Dichloroethane-d4	100 %		60 - 145		B9E0861	05/28/2019	05/28/19 13:22	
Surrogate: 4-Bromofluorobenzene	92.0 %		68 - 121		B9E0861	05/28/2019	05/28/19 13:22	
Surrogate: 4-Bromofluorobenzene	89.0 %		68 - 121		B9E0861	05/28/2019	05/28/19 13:22	



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Client Sample ID WP3-0.5

Lab ID: 1902114-05

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	102 %	65 - 137		B9E0861	05/28/2019	05/28/19 13:22	
Surrogate: Dibromofluoromethane	87.4 %	65 - 137		B9E0861	05/28/2019	05/28/19 13:22	
Surrogate: Toluene-d8	90.9 %	82 - 119		B9E0861	05/28/2019	05/28/19 13:22	
Surrogate: Toluene-d8	90.9 %	82 - 119		B9E0861	05/28/2019	05/28/19 13:22	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	1600	350	5	B9E0909	05/28/2019	05/29/19 16:58	D1
1,2-Dichlorobenzene	ND	1600	300	5	B9E0909	05/28/2019	05/29/19 16:58	D1
1,3-Dichlorobenzene	ND	1600	320	5	B9E0909	05/28/2019	05/29/19 16:58	D1
1,4-Dichlorobenzene	ND	1600	300	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2,4,5-Trichlorophenol	ND	1600	310	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2,4,6-Trichlorophenol	ND	1600	1100	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2,4-Dichlorophenol	ND	8200	580	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2,4-Dimethylphenol	ND	1600	590	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2,4-Dinitrophenol	ND	8200	430	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2,4-Dinitrotoluene	ND	1600	230	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2,6-Dinitrotoluene	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2-Chloronaphthalene	ND	1600	290	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2-Chlorophenol	ND	1600	600	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2-Methylnaphthalene	ND	1600	330	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2-Methylphenol	ND	1600	340	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2-Nitroaniline	ND	8200	1000	5	B9E0909	05/28/2019	05/29/19 16:58	D1
2-Nitrophenol	ND	1600	530	5	B9E0909	05/28/2019	05/29/19 16:58	D1
3,3'-Dichlorobenzidine	ND	3300	1400	5	B9E0909	05/28/2019	05/29/19 16:58	D1
3-Nitroaniline	ND	8200	220	5	B9E0909	05/28/2019	05/29/19 16:58	D1
4,6-Dinitro-2-methylphenol	ND	8200	1500	5	B9E0909	05/28/2019	05/29/19 16:58	D1
4-Bromophenyl-phenylether	ND	1600	250	5	B9E0909	05/28/2019	05/29/19 16:58	D1
4-Chloro-3-methylphenol	ND	3300	540	5	B9E0909	05/28/2019	05/29/19 16:58	D1
4-Chloroaniline	ND	3300	260	5	B9E0909	05/28/2019	05/29/19 16:58	D1
4-Chlorophenyl-phenylether	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 16:58	D1
4-Methylphenol	ND	1600	330	5	B9E0909	05/28/2019	05/29/19 16:58	D1
4-Nitroaniline	ND	8200	1400	5	B9E0909	05/28/2019	05/29/19 16:58	D1
4-Nitrophenol	ND	1600	760	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Acenaphthene	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 16:58	D1



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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP3-0.5

Lab ID: 1902114-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	1600	260	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Anthracene	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Benzidine (M)	ND	8200	7100	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Benzo(a)anthracene	ND	1600	200	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Benzo(a)pyrene	ND	1600	230	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Benzo(b)fluoranthene	ND	1600	280	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Benzo(g,h,i)perylene	ND	1600	190	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Benzo(k)fluoranthene	ND	1600	260	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Benzoic acid	ND	8200	4500	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Benzyl alcohol	ND	3300	340	5	B9E0909	05/28/2019	05/29/19 16:58	D1
bis(2-chloroethoxy)methane	ND	1600	300	5	B9E0909	05/28/2019	05/29/19 16:58	D1
bis(2-Chloroethyl)ether	ND	1600	290	5	B9E0909	05/28/2019	05/29/19 16:58	D1
bis(2-chloroisopropyl)ether	ND	1600	320	5	B9E0909	05/28/2019	05/29/19 16:58	D1
bis(2-ethylhexyl)phthalate	ND	1600	410	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Butylbenzylphthalate	ND	1600	1200	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Chrysene	ND	1600	210	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Di-n-butylphthalate	ND	1600	1100	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Di-n-octylphthalate	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Dibenz(a,h)anthracene	ND	1600	220	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Dibenzofuran	ND	1600	270	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Diethyl phthalate	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Dimethyl phthalate	ND	1600	230	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Fluoranthene	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Fluorene	ND	1600	250	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Hexachlorobenzene	ND	1600	200	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Hexachlorobutadiene	ND	3300	310	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Hexachlorocyclopentadiene	ND	3300	320	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Hexachloroethane	ND	1600	360	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Indeno(1,2,3-cd)pyrene	ND	1600	220	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Isophorone	ND	1600	290	5	B9E0909	05/28/2019	05/29/19 16:58	D1
N-Nitroso-di-n propylamine	ND	1600	330	5	B9E0909	05/28/2019	05/29/19 16:58	D1
N-Nitrosodiphenylamine	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Naphthalene	ND	1600	300	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Nitrobenzene	ND	1600	340	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Pentachlorophenol	ND	8200	930	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Phenanthrene	ND	1600	230	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Phenol	ND	1600	650	5	B9E0909	05/28/2019	05/29/19 16:58	D1



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Client Sample ID WP3-0.5

Lab ID: 1902114-05

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	1600	270	5	B9E0909	05/28/2019	05/29/19 16:58	D1
Pyridine	ND	8200	1300	5	B9E0909	05/28/2019	05/29/19 16:58	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 16:58</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 16:58</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 16:58</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 16:58</i>	<i>S4</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>0%</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 16:58</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 16:58</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 16:58</i>	<i>S4</i>
<i>Surrogate: Phenol-d6</i>	<i>0%</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 16:58</i>	<i>S4</i>



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP4-0.5

Lab ID: 1902114-07

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:44	
Arsenic	3.4	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:44	
Barium	74	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:44	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:44	
Cadmium	0.15	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:44	J
Chromium	8.5	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:44	
Cobalt	8.1	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:44	
Copper	22	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:44	
Lead	21	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:44	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:44	
Nickel	11	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:44	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:44	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:44	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:44	
Vanadium	20	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:44	
Zinc	47	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:44	

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	0.007	1	B9E0959	05/30/2019	05/30/19 13:53	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	720	100	100	100	B9E0938	05/29/2019	05/30/19 02:55	
ORO	2700	100	100	100	B9E0938	05/29/2019	05/30/19 02:55	
Surrogate: p-Terphenyl	42.5 %	34 - 158			B9E0938	05/29/2019	05/30/19 02:55	



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Lab ID: 1902114-07

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	4.4	4.0	0.14	2	B9E0937	05/28/2019	05/30/19 04:30	
4,4'-DDE [2C]	37	4.0	0.22	2	B9E0937	05/28/2019	05/30/19 04:30	
4,4'-DDT [2C]	28	4.0	0.20	2	B9E0937	05/28/2019	05/30/19 04:30	
Aldrin	ND	2.0	0.25	2	B9E0937	05/28/2019	05/30/19 04:30	
alpha-BHC	ND	2.0	0.21	2	B9E0937	05/28/2019	05/30/19 04:30	
alpha-Chlordane	1.0	2.0	0.24	2	B9E0937	05/28/2019	05/30/19 04:30	J
beta-BHC	ND	2.0	0.12	2	B9E0937	05/28/2019	05/30/19 04:30	
Chlordane [2C]	16	17	2.2	2	B9E0937	05/28/2019	05/30/19 04:30	J
delta-BHC	ND	2.0	0.25	2	B9E0937	05/28/2019	05/30/19 04:30	
Dieldrin	3.6	4.0	0.53	2	B9E0937	05/28/2019	05/30/19 04:30	J
Endosulfan I	ND	2.0	0.20	2	B9E0937	05/28/2019	05/30/19 04:30	
Endosulfan II	ND	4.0	0.31	2	B9E0937	05/28/2019	05/30/19 04:30	
Endosulfan sulfate	ND	4.0	0.32	2	B9E0937	05/28/2019	05/30/19 04:30	
Endrin	ND	4.0	0.27	2	B9E0937	05/28/2019	05/30/19 04:30	
Endrin aldehyde	ND	4.0	0.62	2	B9E0937	05/28/2019	05/30/19 04:30	
Endrin ketone	ND	4.0	0.25	2	B9E0937	05/28/2019	05/30/19 04:30	
gamma-BHC	ND	2.0	0.21	2	B9E0937	05/28/2019	05/30/19 04:30	
gamma-Chlordane	ND	2.0	1.8	2	B9E0937	05/28/2019	05/30/19 04:30	
Heptachlor [2C]	ND	2.0	0.23	2	B9E0937	05/28/2019	05/30/19 04:30	
Heptachlor epoxide	ND	2.0	0.18	2	B9E0937	05/28/2019	05/30/19 04:30	
Methoxychlor	ND	10	0.36	2	B9E0937	05/28/2019	05/30/19 04:30	
Toxaphene	ND	100	9.3	2	B9E0937	05/28/2019	05/30/19 04:30	
<i>Surrogate: Decachlorobiphenyl</i>	<i>38.8 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 04:30</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>39.6 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 04:30</i>	



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Client Sample ID WP4-0.5

Lab ID: 1902114-07

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 13:41	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:41	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 13:41	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 13:41	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 13:41	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 13:41	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:41	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 13:41	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 13:41	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 13:41	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:41	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:41	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:41	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 13:41	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 13:41	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 13:41	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 13:41	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:41	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 13:41	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:41	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 13:41	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 13:41	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 13:41	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 13:41	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 13:41	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 13:41	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 13:41	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 13:41	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 13:41	



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Client Sample ID WP4-0.5

Lab ID: 1902114-07

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 13:41	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 13:41	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 13:41	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 13:41	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 13:41	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 13:41	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 13:41	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 13:41	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 13:41	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 13:41	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 13:41	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 13:41	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 13:41	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 13:41	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 13:41	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 13:41	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 13:41	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 13:41	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 13:41	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 13:41	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 13:41	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 13:41	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 13:41	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 13:41	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 13:41	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 13:41	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 13:41	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 13:41	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 13:41	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 13:41	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 13:41	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 13:41	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 13:41	
Surrogate: 1,2-Dichloroethane-d4	89.3 %		60 - 145		B9E0861	05/28/2019	05/28/19 13:41	
Surrogate: 1,2-Dichloroethane-d4	104 %		60 - 145		B9E0861	05/28/2019	05/28/19 13:41	
Surrogate: 4-Bromofluorobenzene	91.2 %		68 - 121		B9E0861	05/28/2019	05/28/19 13:41	
Surrogate: 4-Bromofluorobenzene	88.3 %		68 - 121		B9E0861	05/28/2019	05/28/19 13:41	



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP4-0.5

Lab ID: 1902114-07

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Dibromofluoromethane</i>	99.2 %	65 - 137		B9E0861	05/28/2019	05/28/19 13:41	
<i>Surrogate: Dibromofluoromethane</i>	84.9 %	65 - 137		B9E0861	05/28/2019	05/28/19 13:41	
<i>Surrogate: Toluene-d8</i>	91.0 %	82 - 119		B9E0861	05/28/2019	05/28/19 13:41	
<i>Surrogate: Toluene-d8</i>	90.9 %	82 - 119		B9E0861	05/28/2019	05/28/19 13:41	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	66000	14000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
1,2-Dichlorobenzene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
1,3-Dichlorobenzene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
1,4-Dichlorobenzene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2,4,5-Trichlorophenol	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2,4,6-Trichlorophenol	ND	66000	45000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2,4-Dichlorophenol	ND	330000	23000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2,4-Dimethylphenol	ND	66000	24000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2,4-Dinitrophenol	ND	330000	17000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2,4-Dinitrotoluene	ND	66000	9100	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2,6-Dinitrotoluene	ND	66000	9800	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2-Chloronaphthalene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2-Chlorophenol	ND	66000	24000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2-Methylnaphthalene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2-Methylphenol	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2-Nitroaniline	ND	330000	41000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
2-Nitrophenol	ND	66000	21000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
3,3'-Dichlorobenzidine	ND	130000	56000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
3-Nitroaniline	ND	330000	8900	200	B9E0909	05/28/2019	05/29/19 17:24	D1
4,6-Dinitro-2-methylphenol	ND	330000	60000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
4-Bromophenyl-phenylether	ND	66000	9900	200	B9E0909	05/28/2019	05/29/19 17:24	D1
4-Chloro-3-methylphenol	ND	130000	21000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
4-Chloroaniline	ND	130000	11000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
4-Chlorophenyl-phenylether	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 17:24	D1
4-Methylphenol	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
4-Nitroaniline	ND	330000	58000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
4-Nitrophenol	ND	66000	30000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Acenaphthene	ND	66000	9700	200	B9E0909	05/28/2019	05/29/19 17:24	D1



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Client Sample ID WP4-0.5

Lab ID: 1902114-07

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	66000	10000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Anthracene	ND	66000	9700	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Benzidine (M)	ND	330000	290000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Benzo(a)anthracene	ND	66000	7800	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Benzo(a)pyrene	ND	66000	9100	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Benzo(b)fluoranthene	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Benzo(g,h,i)perylene	ND	66000	7500	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Benzo(k)fluoranthene	ND	66000	10000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Benzoic acid	ND	330000	180000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Benzyl alcohol	ND	130000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
bis(2-chloroethoxy)methane	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
bis(2-Chloroethyl)ether	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
bis(2-chloroisopropyl)ether	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
bis(2-ethylhexyl)phthalate	ND	66000	17000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Butylbenzylphthalate	ND	66000	49000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Chrysene	ND	66000	8600	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Di-n-butylphthalate	ND	66000	45000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Di-n-octylphthalate	ND	66000	9600	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Dibenz(a,h)anthracene	ND	66000	8700	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Dibenzofuran	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Diethyl phthalate	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Dimethyl phthalate	ND	66000	9200	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Fluoranthene	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Fluorene	ND	66000	9800	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Hexachlorobenzene	ND	66000	8200	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Hexachlorobutadiene	ND	130000	12000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Hexachlorocyclopentadiene	ND	130000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Hexachloroethane	ND	66000	14000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Indeno(1,2,3-cd)pyrene	ND	66000	8700	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Isophorone	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
N-Nitroso-di-n propylamine	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
N-Nitrosodiphenylamine	ND	66000	9600	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Naphthalene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Nitrobenzene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Pentachlorophenol	ND	330000	37000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Phenanthrene	ND	66000	9200	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Phenol	ND	66000	26000	200	B9E0909	05/28/2019	05/29/19 17:24	D1



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Client Sample ID WP4-0.5

Lab ID: 1902114-07

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
Pyridine	ND	330000	53000	200	B9E0909	05/28/2019	05/29/19 17:24	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 17:24</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 17:24</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 17:24</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 17:24</i>	<i>S4</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>0%</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 17:24</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 17:24</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 17:24</i>	<i>S4</i>
<i>Surrogate: Phenol-d6</i>	<i>0%</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 17:24</i>	<i>S4</i>



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP5-0.5

Lab ID: 1902114-09

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:45	
Arsenic	3.1	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:45	
Barium	70	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:45	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:45	
Cadmium	0.14	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:45	J
Chromium	10	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:45	
Cobalt	5.2	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:45	
Copper	12	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:45	
Lead	19	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:45	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:45	
Nickel	12	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:45	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:45	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:45	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:45	
Vanadium	22	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:45	
Zinc	44	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:45	

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	0.007	1	B9E0959	05/30/2019	05/30/19 14:00	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	690	100	100	100	B9E0938	05/29/2019	05/30/19 03:12	
ORO	2300	100	100	100	B9E0938	05/29/2019	05/30/19 03:12	
Surrogate: p-Terphenyl	36.2 %		34 - 158		B9E0938	05/29/2019	05/30/19 03:12	



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Lab ID: 1902114-09

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	0.12	2.0	0.07	1	B9E0937	05/28/2019	05/30/19 04:40	J
4,4'-DDE	0.52	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 04:40	J
4,4'-DDT	0.73	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:40	J
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:40	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 04:40	
alpha-Chlordane [2C]	0.96	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:40	J
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 04:40	
Chlordane [2C]	6.3	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 04:40	J
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:40	
Dieldrin	ND	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 04:40	
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:40	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 04:40	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 04:40	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 04:40	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 04:40	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 04:40	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 04:40	
gamma-Chlordane	ND	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 04:40	
Heptachlor [2C]	0.12	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 04:40	J
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 04:40	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 04:40	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 04:40	
<i>Surrogate: Decachlorobiphenyl</i>	<i>10.1 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 04:40</i>	S10
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>15.2 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 04:40</i>	S10



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Client Sample ID WP5-0.5

Lab ID: 1902114-09

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 14:00	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:00	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 14:00	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:00	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 14:00	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 14:00	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:00	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 14:00	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 14:00	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 14:00	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:00	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:00	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:00	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:00	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:00	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:00	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 14:00	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:00	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 14:00	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:00	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 14:00	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 14:00	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 14:00	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:00	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 14:00	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:00	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 14:00	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 14:00	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 14:00	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP5-0.5

Lab ID: 1902114-09

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 14:00	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 14:00	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 14:00	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:00	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 14:00	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 14:00	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 14:00	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 14:00	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 14:00	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 14:00	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 14:00	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 14:00	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 14:00	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:00	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 14:00	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 14:00	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 14:00	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 14:00	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 14:00	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:00	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:00	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 14:00	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 14:00	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 14:00	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:00	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 14:00	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 14:00	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 14:00	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 14:00	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 14:00	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 14:00	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 14:00	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 14:00	

Surrogate: 1,2-Dichloroethane-d4	91.3 %	60 - 145	B9E0861	05/28/2019	05/28/19 14:00
Surrogate: 1,2-Dichloroethane-d4	107 %	60 - 145	B9E0861	05/28/2019	05/28/19 14:00
Surrogate: 4-Bromofluorobenzene	92.3 %	68 - 121	B9E0861	05/28/2019	05/28/19 14:00
Surrogate: 4-Bromofluorobenzene	89.3 %	68 - 121	B9E0861	05/28/2019	05/28/19 14:00



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Client Sample ID WP5-0.5

Lab ID: 1902114-09

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Dibromofluoromethane</i>	105 %	65 - 137		B9E0861	05/28/2019	05/28/19 14:00	
<i>Surrogate: Dibromofluoromethane</i>	89.8 %	65 - 137		B9E0861	05/28/2019	05/28/19 14:00	
<i>Surrogate: Toluene-d8</i>	90.4 %	82 - 119		B9E0861	05/28/2019	05/28/19 14:00	
<i>Surrogate: Toluene-d8</i>	90.3 %	82 - 119		B9E0861	05/28/2019	05/28/19 14:00	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	82000	18000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
1,2-Dichlorobenzene	ND	82000	15000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
1,3-Dichlorobenzene	ND	82000	16000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
1,4-Dichlorobenzene	ND	82000	15000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2,4,5-Trichlorophenol	ND	82000	15000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2,4,6-Trichlorophenol	ND	82000	56000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2,4-Dichlorophenol	ND	410000	29000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2,4-Dimethylphenol	ND	82000	29000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2,4-Dinitrophenol	ND	410000	22000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2,4-Dinitrotoluene	ND	82000	11000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2,6-Dinitrotoluene	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2-Chloronaphthalene	ND	82000	15000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2-Chlorophenol	ND	82000	30000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2-Methylnaphthalene	ND	82000	17000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2-Methylphenol	ND	82000	17000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2-Nitroaniline	ND	410000	51000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
2-Nitrophenol	ND	82000	27000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
3,3'-Dichlorobenzidine	ND	160000	70000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
3-Nitroaniline	ND	410000	11000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
4,6-Dinitro-2-methylphenol	ND	410000	75000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
4-Bromophenyl-phenylether	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
4-Chloro-3-methylphenol	ND	160000	27000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
4-Chloroaniline	ND	160000	13000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
4-Chlorophenyl-phenylether	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
4-Methylphenol	ND	82000	17000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
4-Nitroaniline	ND	410000	72000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
4-Nitrophenol	ND	82000	38000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Acenaphthene	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1



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Client Sample ID WP5-0.5

Lab ID: 1902114-09

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	82000	13000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Anthracene	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Benzidine (M)	ND	410000	360000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Benzo(a)anthracene	ND	82000	9800	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Benzo(a)pyrene	ND	82000	11000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Benzo(b)fluoranthene	ND	82000	14000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Benzo(g,h,i)perylene	ND	82000	9400	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Benzo(k)fluoranthene	ND	82000	13000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Benzoic acid	ND	410000	220000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Benzyl alcohol	ND	160000	17000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
bis(2-chloroethoxy)methane	ND	82000	15000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
bis(2-Chloroethyl)ether	ND	82000	14000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
bis(2-chloroisopropyl)ether	ND	82000	16000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
bis(2-ethylhexyl)phthalate	ND	82000	21000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Butylbenzylphthalate	ND	82000	62000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Chrysene	ND	82000	11000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Di-n-butylphthalate	ND	82000	56000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Di-n-octylphthalate	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Dibenz(a,h)anthracene	ND	82000	11000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Dibenzofuran	ND	82000	14000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Diethyl phthalate	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Dimethyl phthalate	ND	82000	11000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Fluoranthene	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Fluorene	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Hexachlorobenzene	ND	82000	10000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Hexachlorobutadiene	ND	160000	15000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Hexachlorocyclopentadiene	ND	160000	16000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Hexachloroethane	ND	82000	18000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Indeno(1,2,3-cd)pyrene	ND	82000	11000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Isophorone	ND	82000	14000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
N-Nitroso-di-n propylamine	ND	82000	16000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
N-Nitrosodiphenylamine	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Naphthalene	ND	82000	15000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Nitrobenzene	ND	82000	17000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Pentachlorophenol	ND	410000	47000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Phenanthrene	ND	82000	12000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Phenol	ND	82000	33000	250	B9E0909	05/28/2019	05/29/19 17:50	D1



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Client Sample ID WP5-0.5

Lab ID: 1902114-09

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	82000	13000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
Pyridine	ND	410000	66000	250	B9E0909	05/28/2019	05/29/19 17:50	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 17:50</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 17:50</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 17:50</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 17:50</i>	<i>S4</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>0%</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 17:50</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 17:50</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 17:50</i>	<i>S4</i>
<i>Surrogate: Phenol-d6</i>	<i>0%</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 17:50</i>	<i>S4</i>



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP6-0.5

Lab ID: 1902114-10

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:49	
Arsenic	2.2	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:49	
Barium	63	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:49	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:49	
Cadmium	0.21	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:49	J
Chromium	8.2	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:49	
Cobalt	4.0	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:49	
Copper	10	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:49	
Lead	14	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:49	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:49	
Nickel	9.7	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:49	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:49	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:49	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:49	
Vanadium	17	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:49	
Zinc	33	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:49	

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	0.007	1	B9E0959	05/30/2019	05/30/19 14:02	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	860	100	100	100	B9E0938	05/29/2019	05/30/19 02:38	
ORO	3100	100	100	100	B9E0938	05/29/2019	05/30/19 02:38	
Surrogate: p-Terphenyl	50.0 %	34 - 158			B9E0938	05/29/2019	05/30/19 02:38	



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Lab ID: 1902114-10

Organochlorine Pesticides by EPA 8081

Analyst: KD

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	B9E0937	05/28/2019	05/30/19 11:53	
4,4'-DDE [2C]	1.4	10	0.54	5	B9E0937	05/28/2019	05/30/19 11:53	J
4,4'-DDT	ND	10	0.50	5	B9E0937	05/28/2019	05/30/19 11:53	
Aldrin	ND	5.0	0.62	5	B9E0937	05/28/2019	05/30/19 11:53	
alpha-BHC	ND	5.0	0.53	5	B9E0937	05/28/2019	05/30/19 11:53	
alpha-Chlordane [2C]	4.1	5.0	0.59	5	B9E0937	05/28/2019	05/30/19 11:53	J
beta-BHC	ND	5.0	0.30	5	B9E0937	05/28/2019	05/30/19 11:53	
Chlordane [2C]	31	42	5.5	5	B9E0937	05/28/2019	05/30/19 11:53	J
delta-BHC	ND	5.0	0.62	5	B9E0937	05/28/2019	05/30/19 11:53	
Dieldrin	ND	10	1.3	5	B9E0937	05/28/2019	05/30/19 11:53	
Endosulfan I	ND	5.0	0.50	5	B9E0937	05/28/2019	05/30/19 11:53	
Endosulfan II	ND	10	0.77	5	B9E0937	05/28/2019	05/30/19 11:53	
Endosulfan sulfate	ND	10	0.80	5	B9E0937	05/28/2019	05/30/19 11:53	
Endrin	ND	10	0.68	5	B9E0937	05/28/2019	05/30/19 11:53	
Endrin aldehyde	ND	10	1.6	5	B9E0937	05/28/2019	05/30/19 11:53	
Endrin ketone	ND	10	0.63	5	B9E0937	05/28/2019	05/30/19 11:53	
gamma-BHC	ND	5.0	0.52	5	B9E0937	05/28/2019	05/30/19 11:53	
gamma-Chlordane [2C]	ND	5.0	4.4	5	B9E0937	05/28/2019	05/30/19 11:53	
Heptachlor	ND	5.0	0.59	5	B9E0937	05/28/2019	05/30/19 11:53	
Heptachlor epoxide	ND	5.0	0.44	5	B9E0937	05/28/2019	05/30/19 11:53	
Methoxychlor	ND	25	0.89	5	B9E0937	05/28/2019	05/30/19 11:53	
Toxaphene	ND	250	23	5	B9E0937	05/28/2019	05/30/19 11:53	
<i>Surrogate: Decachlorobiphenyl</i>	<i>36.2 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 11:53</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>50.1 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 11:53</i>	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP6-0.5

Lab ID: 1902114-10

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 14:19	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:19	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 14:19	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:19	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 14:19	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 14:19	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:19	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 14:19	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 14:19	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 14:19	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:19	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:19	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:19	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:19	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:19	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:19	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 14:19	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:19	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 14:19	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:19	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 14:19	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 14:19	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 14:19	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:19	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 14:19	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:19	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 14:19	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 14:19	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 14:19	



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Client Sample ID WP6-0.5

Lab ID: 1902114-10

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 14:19	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 14:19	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 14:19	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:19	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 14:19	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 14:19	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 14:19	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 14:19	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 14:19	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 14:19	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 14:19	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 14:19	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 14:19	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:19	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 14:19	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 14:19	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 14:19	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 14:19	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 14:19	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:19	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:19	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 14:19	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 14:19	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 14:19	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:19	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 14:19	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 14:19	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 14:19	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 14:19	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 14:19	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 14:19	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 14:19	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 14:19	
Surrogate: 1,2-Dichloroethane-d4	93.5 %		60 - 145		B9E0861	05/28/2019	05/28/19 14:19	
Surrogate: 1,2-Dichloroethane-d4	108 %		60 - 145		B9E0861	05/28/2019	05/28/19 14:19	
Surrogate: 4-Bromofluorobenzene	94.5 %		68 - 121		B9E0861	05/28/2019	05/28/19 14:19	
Surrogate: 4-Bromofluorobenzene	91.7 %		68 - 121		B9E0861	05/28/2019	05/28/19 14:19	



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Client Sample ID WP6-0.5

Lab ID: 1902114-10

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Dibromofluoromethane</i>	105 %	65 - 137		B9E0861	05/28/2019	05/28/19 14:19	
<i>Surrogate: Dibromofluoromethane</i>	89.6 %	65 - 137		B9E0861	05/28/2019	05/28/19 14:19	
<i>Surrogate: Toluene-d8</i>	90.4 %	82 - 119		B9E0861	05/28/2019	05/28/19 14:19	
<i>Surrogate: Toluene-d8</i>	90.3 %	82 - 119		B9E0861	05/28/2019	05/28/19 14:19	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	66000	14000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
1,2-Dichlorobenzene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
1,3-Dichlorobenzene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
1,4-Dichlorobenzene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2,4,5-Trichlorophenol	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2,4,6-Trichlorophenol	ND	66000	45000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2,4-Dichlorophenol	ND	330000	23000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2,4-Dimethylphenol	ND	66000	24000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2,4-Dinitrophenol	ND	330000	17000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2,4-Dinitrotoluene	ND	66000	9100	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2,6-Dinitrotoluene	ND	66000	9800	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2-Chloronaphthalene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2-Chlorophenol	ND	66000	24000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2-Methylnaphthalene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2-Methylphenol	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2-Nitroaniline	ND	330000	41000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
2-Nitrophenol	ND	66000	21000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
3,3'-Dichlorobenzidine	ND	130000	56000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
3-Nitroaniline	ND	330000	8900	200	B9E0909	05/28/2019	05/29/19 18:17	D1
4,6-Dinitro-2-methylphenol	ND	330000	60000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
4-Bromophenyl-phenylether	ND	66000	9900	200	B9E0909	05/28/2019	05/29/19 18:17	D1
4-Chloro-3-methylphenol	ND	130000	21000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
4-Chloroaniline	ND	130000	11000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
4-Chlorophenyl-phenylether	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 18:17	D1
4-Methylphenol	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
4-Nitroaniline	ND	330000	58000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
4-Nitrophenol	ND	66000	30000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Acenaphthene	ND	66000	9700	200	B9E0909	05/28/2019	05/29/19 18:17	D1



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Client Sample ID WP6-0.5

Lab ID: 1902114-10

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	66000	10000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Anthracene	ND	66000	9700	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Benzidine (M)	ND	330000	290000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Benzo(a)anthracene	ND	66000	7800	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Benzo(a)pyrene	ND	66000	9100	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Benzo(b)fluoranthene	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Benzo(g,h,i)perylene	ND	66000	7500	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Benzo(k)fluoranthene	ND	66000	10000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Benzoic acid	ND	330000	180000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Benzyl alcohol	ND	130000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
bis(2-chloroethoxy)methane	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
bis(2-Chloroethyl)ether	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
bis(2-chloroisopropyl)ether	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
bis(2-ethylhexyl)phthalate	ND	66000	17000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Butylbenzylphthalate	ND	66000	49000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Chrysene	ND	66000	8600	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Di-n-butylphthalate	ND	66000	45000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Di-n-octylphthalate	ND	66000	9600	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Dibenz(a,h)anthracene	ND	66000	8700	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Dibenzofuran	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Diethyl phthalate	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Dimethyl phthalate	ND	66000	9200	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Fluoranthene	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Fluorene	ND	66000	9800	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Hexachlorobenzene	ND	66000	8200	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Hexachlorobutadiene	ND	130000	12000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Hexachlorocyclopentadiene	ND	130000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Hexachloroethane	ND	66000	14000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Indeno(1,2,3-cd)pyrene	ND	66000	8700	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Isophorone	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
N-Nitroso-di-n propylamine	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
N-Nitrosodiphenylamine	ND	66000	9600	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Naphthalene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Nitrobenzene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Pentachlorophenol	ND	330000	37000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Phenanthrene	ND	66000	9200	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Phenol	ND	66000	26000	200	B9E0909	05/28/2019	05/29/19 18:17	D1



Certificate of Analysis

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Client Sample ID WP6-0.5

Lab ID: 1902114-10

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
Pyridine	ND	330000	53000	200	B9E0909	05/28/2019	05/29/19 18:17	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 18:17</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 18:17</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 18:17</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 18:17</i>	<i>S4</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>0%</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 18:17</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 18:17</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 18:17</i>	<i>S4</i>
<i>Surrogate: Phenol-d6</i>	<i>0%</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 18:17</i>	<i>S4</i>



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Project Number : LAUSD - Jordan High School, 11640.011
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Reported : 05/30/2019

Client Sample ID WP7-0.5

Lab ID: 1902114-13

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.04	0.01	1	B9E0958	05/30/2019	05/30/19 16:50	
Arsenic	0.05	0.02	0.002	1	B9E0958	05/30/2019	05/30/19 16:50	
Barium	1.3	0.02	0.002	1	B9E0958	05/30/2019	05/30/19 16:50	
Beryllium	ND	0.02	0.0006	1	B9E0958	05/30/2019	05/30/19 16:50	
Cadmium	0.004	0.02	0.003	1	B9E0958	05/30/2019	05/30/19 16:50	J
Chromium	0.16	0.02	0.005	1	B9E0958	05/30/2019	05/30/19 16:50	
Cobalt	0.12	0.02	0.001	1	B9E0958	05/30/2019	05/30/19 16:50	
Copper	0.24	0.04	0.004	1	B9E0958	05/30/2019	05/30/19 16:50	
Lead	0.38	0.02	0.004	1	B9E0958	05/30/2019	05/30/19 16:50	
Molybdenum	ND	0.02	0.002	1	B9E0958	05/30/2019	05/30/19 16:50	
Nickel	0.22	0.02	0.004	1	B9E0958	05/30/2019	05/30/19 16:50	
Selenium	ND	0.02	0.008	1	B9E0958	05/30/2019	05/30/19 16:50	
Silver	ND	0.02	0.002	1	B9E0958	05/30/2019	05/30/19 16:50	
Thallium	ND	0.02	0.008	1	B9E0958	05/30/2019	05/30/19 16:50	
Vanadium	0.40	0.02	0.001	1	B9E0958	05/30/2019	05/30/19 16:50	
Zinc	0.76	0.02	0.003	1	B9E0958	05/30/2019	05/30/19 16:50	

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	0.05	0.10	0.007	1	B9E0959	05/30/2019	05/30/19 14:04	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	660	100	100	100	B9E0938	05/29/2019	05/30/19 04:02	
ORO	1700	100	100	100	B9E0938	05/29/2019	05/30/19 04:02	
Surrogate: p-Terphenyl	65.0 %		34 - 158		B9E0938	05/29/2019	05/30/19 04:02	



Certificate of Analysis

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17781 Cowan Street
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Client Sample ID WP7-0.5

Lab ID: 1902114-13

Organochlorine Pesticides by EPA 8081

Analyst: KD

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	B9E0937	05/28/2019	05/30/19 13:39	
4,4'-DDE	2.1	10	0.54	5	B9E0937	05/28/2019	05/30/19 13:39	J
4,4'-DDT	1.8	10	0.50	5	B9E0937	05/28/2019	05/30/19 13:39	J
Aldrin	ND	5.0	0.62	5	B9E0937	05/28/2019	05/30/19 13:39	
alpha-BHC	ND	5.0	0.53	5	B9E0937	05/28/2019	05/30/19 13:39	
alpha-Chlordane	1.9	5.0	0.59	5	B9E0937	05/28/2019	05/30/19 13:39	J
beta-BHC	ND	5.0	0.30	5	B9E0937	05/28/2019	05/30/19 13:39	
Chlordane [2C]	23	42	5.5	5	B9E0937	05/28/2019	05/30/19 13:39	J
delta-BHC	ND	5.0	0.62	5	B9E0937	05/28/2019	05/30/19 13:39	
Dieldrin	ND	10	1.3	5	B9E0937	05/28/2019	05/30/19 13:39	
Endosulfan I	ND	5.0	0.50	5	B9E0937	05/28/2019	05/30/19 13:39	
Endosulfan II	ND	10	0.77	5	B9E0937	05/28/2019	05/30/19 13:39	
Endosulfan sulfate	ND	10	0.80	5	B9E0937	05/28/2019	05/30/19 13:39	
Endrin	ND	10	0.68	5	B9E0937	05/28/2019	05/30/19 13:39	
Endrin aldehyde	ND	10	1.6	5	B9E0937	05/28/2019	05/30/19 13:39	
Endrin ketone	ND	10	0.63	5	B9E0937	05/28/2019	05/30/19 13:39	
gamma-BHC	ND	5.0	0.52	5	B9E0937	05/28/2019	05/30/19 13:39	
gamma-Chlordane [2C]	ND	5.0	4.4	5	B9E0937	05/28/2019	05/30/19 13:39	
Heptachlor	ND	5.0	0.59	5	B9E0937	05/28/2019	05/30/19 13:39	
Heptachlor epoxide	ND	5.0	0.44	5	B9E0937	05/28/2019	05/30/19 13:39	
Methoxychlor	ND	25	0.89	5	B9E0937	05/28/2019	05/30/19 13:39	
Toxaphene	ND	250	23	5	B9E0937	05/28/2019	05/30/19 13:39	
Surrogate: Decachlorobiphenyl	35.8 %		32 - 91		B9E0937	05/28/2019	05/30/19 13:39	
Surrogate: Tetrachloro-m-xylene	42.8 %		38 - 93		B9E0937	05/28/2019	05/30/19 13:39	



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Client Sample ID WP7-0.5

Lab ID: 1902114-13

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 14:38	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:38	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 14:38	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:38	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 14:38	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 14:38	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:38	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 14:38	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 14:38	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 14:38	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:38	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:38	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:38	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:38	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:38	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:38	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 14:38	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:38	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 14:38	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:38	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 14:38	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 14:38	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 14:38	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:38	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 14:38	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:38	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 14:38	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 14:38	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 14:38	



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Client Sample ID WP7-0.5

Lab ID: 1902114-13

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 14:38	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 14:38	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 14:38	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:38	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 14:38	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 14:38	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 14:38	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 14:38	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 14:38	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 14:38	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 14:38	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 14:38	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 14:38	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:38	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 14:38	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 14:38	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 14:38	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 14:38	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 14:38	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:38	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:38	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 14:38	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 14:38	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 14:38	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:38	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 14:38	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 14:38	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 14:38	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 14:38	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 14:38	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 14:38	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 14:38	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 14:38	
Surrogate: 1,2-Dichloroethane-d4	96.9 %		60 - 145		B9E0861	05/28/2019	05/28/19 14:38	
Surrogate: 1,2-Dichloroethane-d4	113 %		60 - 145		B9E0861	05/28/2019	05/28/19 14:38	
Surrogate: 4-Bromofluorobenzene	95.5 %		68 - 121		B9E0861	05/28/2019	05/28/19 14:38	
Surrogate: 4-Bromofluorobenzene	92.3 %		68 - 121		B9E0861	05/28/2019	05/28/19 14:38	



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Client Sample ID WP7-0.5

Lab ID: 1902114-13

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	105 %	65 - 137		B9E0861	05/28/2019	05/28/19 14:38	
Surrogate: Dibromofluoromethane	89.6 %	65 - 137		B9E0861	05/28/2019	05/28/19 14:38	
Surrogate: Toluene-d8	90.9 %	82 - 119		B9E0861	05/28/2019	05/28/19 14:38	
Surrogate: Toluene-d8	90.7 %	82 - 119		B9E0861	05/28/2019	05/28/19 14:38	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	66000	14000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
1,2-Dichlorobenzene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
1,3-Dichlorobenzene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
1,4-Dichlorobenzene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2,4,5-Trichlorophenol	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2,4,6-Trichlorophenol	ND	66000	45000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2,4-Dichlorophenol	ND	330000	23000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2,4-Dimethylphenol	ND	66000	24000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2,4-Dinitrophenol	ND	330000	17000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2,4-Dinitrotoluene	ND	66000	9100	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2,6-Dinitrotoluene	ND	66000	9800	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2-Chloronaphthalene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2-Chlorophenol	ND	66000	24000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2-Methylnaphthalene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2-Methylphenol	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2-Nitroaniline	ND	330000	41000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
2-Nitrophenol	ND	66000	21000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
3,3'-Dichlorobenzidine	ND	130000	56000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
3-Nitroaniline	ND	330000	8900	200	B9E0909	05/28/2019	05/29/19 18:43	D1
4,6-Dinitro-2-methylphenol	ND	330000	60000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
4-Bromophenyl-phenylether	ND	66000	9900	200	B9E0909	05/28/2019	05/29/19 18:43	D1
4-Chloro-3-methylphenol	ND	130000	21000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
4-Chloroaniline	ND	130000	11000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
4-Chlorophenyl-phenylether	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 18:43	D1
4-Methylphenol	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
4-Nitroaniline	ND	330000	58000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
4-Nitrophenol	ND	66000	30000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Acenaphthene	ND	66000	9700	200	B9E0909	05/28/2019	05/29/19 18:43	D1



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Client Sample ID WP7-0.5

Lab ID: 1902114-13

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	66000	10000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Anthracene	ND	66000	9700	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Benzidine (M)	ND	330000	290000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Benzo(a)anthracene	ND	66000	7800	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Benzo(a)pyrene	ND	66000	9100	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Benzo(b)fluoranthene	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Benzo(g,h,i)perylene	ND	66000	7500	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Benzo(k)fluoranthene	ND	66000	10000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Benzoic acid	ND	330000	180000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Benzyl alcohol	ND	130000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
bis(2-chloroethoxy)methane	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
bis(2-Chloroethyl)ether	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
bis(2-chloroisopropyl)ether	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
bis(2-ethylhexyl)phthalate	ND	66000	17000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Butylbenzylphthalate	ND	66000	49000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Chrysene	ND	66000	8600	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Di-n-butylphthalate	ND	66000	45000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Di-n-octylphthalate	ND	66000	9600	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Dibenz(a,h)anthracene	ND	66000	8700	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Dibenzofuran	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Diethyl phthalate	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Dimethyl phthalate	ND	66000	9200	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Fluoranthene	ND	66000	9500	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Fluorene	ND	66000	9800	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Hexachlorobenzene	ND	66000	8200	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Hexachlorobutadiene	ND	130000	12000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Hexachlorocyclopentadiene	ND	130000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Hexachloroethane	ND	66000	14000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Indeno(1,2,3-cd)pyrene	ND	66000	8700	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Isophorone	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
N-Nitroso-di-n propylamine	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
N-Nitrosodiphenylamine	ND	66000	9600	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Naphthalene	ND	66000	12000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Nitrobenzene	ND	66000	13000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Pentachlorophenol	ND	330000	37000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Phenanthrene	ND	66000	9200	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Phenol	ND	66000	26000	200	B9E0909	05/28/2019	05/29/19 18:43	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP7-0.5

Lab ID: 1902114-13

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	66000	11000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
Pyridine	ND	330000	53000	200	B9E0909	05/28/2019	05/29/19 18:43	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0%</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 18:43</i>	<i>S4</i>
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>0%</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 18:43</i>	<i>S4</i>
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>0%</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 18:43</i>	<i>S4</i>
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0%</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 18:43</i>	<i>S4</i>
<i>Surrogate: 2-Fluorophenol</i>	<i>0%</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 18:43</i>	<i>S4</i>
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0%</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 18:43</i>	<i>S4</i>
<i>Surrogate: Nitrobenzene-d5</i>	<i>0%</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 18:43</i>	<i>S4</i>
<i>Surrogate: Phenol-d6</i>	<i>0%</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 18:43</i>	<i>S4</i>



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP8-0.5

Lab ID: 1902114-15

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:51	
Arsenic	7.7	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:51	
Barium	100	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:51	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:51	
Cadmium	0.31	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:51	J
Chromium	13	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:51	
Cobalt	7.7	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:51	
Copper	19	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:51	
Lead	19	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:51	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:51	
Nickel	9.7	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:51	
Selenium	0.53	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:51	J
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:51	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:51	
Vanadium	26	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:51	
Zinc	76	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:51	

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	0.007	1	B9E0959	05/30/2019	05/30/19 14:06	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	12	2.0	2.0	2	B9E0938	05/29/2019	05/29/19 23:51	
ORO	53	2.0	2.0	2	B9E0938	05/29/2019	05/29/19 23:51	
Surrogate: p-Terphenyl	82.6 %		34 - 158		B9E0938	05/29/2019	05/29/19 23:51	



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP8-0.5

Lab ID: 1902114-15

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	1.1	2.0	0.07	1	B9E0937	05/28/2019	05/30/19 05:22	J
4,4'-DDE [2C]	3.4	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 05:22	
4,4'-DDT [2C]	5.3	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:22	
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:22	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 05:22	
alpha-Chlordane [2C]	0.86	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:22	J
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 05:22	
Chlordane	7.7	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 05:22	J
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:22	
Dieldrin	ND	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 05:22	
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:22	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 05:22	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 05:22	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 05:22	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 05:22	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 05:22	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:22	
gamma-Chlordane	0.95	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 05:22	J
Heptachlor	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:22	
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 05:22	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 05:22	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 05:22	
<i>Surrogate: Decachlorobiphenyl</i>	<i>43.8 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 05:22</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>81.7 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 05:22</i>	



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Client Sample ID WP8-0.5

Lab ID: 1902114-15

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
Aroclor 1221	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
Aroclor 1232	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
Aroclor 1242	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
Aroclor 1248	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
Aroclor 1254	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
Aroclor 1260	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
Aroclor 1262	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
Aroclor 1268	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:36	
<i>Surrogate: Decachlorobiphenyl</i>	<i>89.0 %</i>		<i>38 - 117</i>		B9E0937	05/28/2019	05/29/19 17:36	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>80.6 %</i>		<i>39 - 121</i>		B9E0937	05/28/2019	05/29/19 17:36	

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 14:57	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:57	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 14:57	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:57	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 14:57	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 14:57	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:57	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 14:57	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 14:57	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 14:57	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:57	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:57	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:57	



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP8-0.5

Lab ID: 1902114-15

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:57	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:57	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:57	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 14:57	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:57	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 14:57	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:57	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 14:57	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 14:57	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 14:57	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 14:57	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 14:57	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 14:57	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 14:57	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 14:57	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 14:57	
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 14:57	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 14:57	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 14:57	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:57	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 14:57	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 14:57	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 14:57	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 14:57	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 14:57	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 14:57	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 14:57	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 14:57	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 14:57	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:57	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 14:57	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 14:57	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 14:57	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 14:57	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 14:57	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 14:57	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 14:57	



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP8-0.5

Lab ID: 1902114-15

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 14:57	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 14:57	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 14:57	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 14:57	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 14:57	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 14:57	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 14:57	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 14:57	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 14:57	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 14:57	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 14:57	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 14:57	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>118 %</i>	<i>60 - 145</i>			B9E0861	05/28/2019	<i>05/28/19 14:57</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>102 %</i>	<i>60 - 145</i>			B9E0861	05/28/2019	<i>05/28/19 14:57</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.0 %</i>	<i>68 - 121</i>			B9E0861	05/28/2019	<i>05/28/19 14:57</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>98.5 %</i>	<i>68 - 121</i>			B9E0861	05/28/2019	<i>05/28/19 14:57</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>104 %</i>	<i>65 - 137</i>			B9E0861	05/28/2019	<i>05/28/19 14:57</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>88.7 %</i>	<i>65 - 137</i>			B9E0861	05/28/2019	<i>05/28/19 14:57</i>	
<i>Surrogate: Toluene-d8</i>	<i>93.0 %</i>	<i>82 - 119</i>			B9E0861	05/28/2019	<i>05/28/19 14:57</i>	
<i>Surrogate: Toluene-d8</i>	<i>93.0 %</i>	<i>82 - 119</i>			B9E0861	05/28/2019	<i>05/28/19 14:57</i>	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	330	71	1	B9E0909	05/28/2019	05/29/19 19:09	
1,2-Dichlorobenzene	ND	330	60	1	B9E0909	05/28/2019	05/29/19 19:09	
1,3-Dichlorobenzene	ND	330	65	1	B9E0909	05/28/2019	05/29/19 19:09	
1,4-Dichlorobenzene	ND	330	60	1	B9E0909	05/28/2019	05/29/19 19:09	
2,4,5-Trichlorophenol	ND	330	61	1	B9E0909	05/28/2019	05/29/19 19:09	
2,4,6-Trichlorophenol	ND	330	220	1	B9E0909	05/28/2019	05/29/19 19:09	
2,4-Dichlorophenol	ND	1600	120	1	B9E0909	05/28/2019	05/29/19 19:09	
2,4-Dimethylphenol	ND	330	120	1	B9E0909	05/28/2019	05/29/19 19:09	
2,4-Dinitrophenol	ND	1600	86	1	B9E0909	05/28/2019	05/29/19 19:09	
2,4-Dinitrotoluene	ND	330	46	1	B9E0909	05/28/2019	05/29/19 19:09	
2,6-Dinitrotoluene	ND	330	49	1	B9E0909	05/28/2019	05/29/19 19:09	
2-Chloronaphthalene	ND	330	59	1	B9E0909	05/28/2019	05/29/19 19:09	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP8-0.5

Lab ID: 1902114-15

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorophenol	ND	330	120	1	B9E0909	05/28/2019	05/29/19 19:09	
2-Methylnaphthalene	ND	330	67	1	B9E0909	05/28/2019	05/29/19 19:09	
2-Methylphenol	ND	330	67	1	B9E0909	05/28/2019	05/29/19 19:09	
2-Nitroaniline	ND	1600	200	1	B9E0909	05/28/2019	05/29/19 19:09	
2-Nitrophenol	ND	330	110	1	B9E0909	05/28/2019	05/29/19 19:09	
3,3'-Dichlorobenzidine	ND	660	280	1	B9E0909	05/28/2019	05/29/19 19:09	
3-Nitroaniline	ND	1600	44	1	B9E0909	05/28/2019	05/29/19 19:09	
4,6-Dinitro-2-methylphenol	ND	1600	300	1	B9E0909	05/28/2019	05/29/19 19:09	
4-Bromophenyl-phenylether	ND	330	50	1	B9E0909	05/28/2019	05/29/19 19:09	
4-Chloro-3-methylphenol	ND	660	110	1	B9E0909	05/28/2019	05/29/19 19:09	
4-Chloroaniline	ND	660	53	1	B9E0909	05/28/2019	05/29/19 19:09	
4-Chlorophenyl-phenylether	ND	330	48	1	B9E0909	05/28/2019	05/29/19 19:09	
4-Methylphenol	ND	330	66	1	B9E0909	05/28/2019	05/29/19 19:09	
4-Nitroaniline	ND	1600	290	1	B9E0909	05/28/2019	05/29/19 19:09	
4-Nitrophenol	ND	330	150	1	B9E0909	05/28/2019	05/29/19 19:09	
Acenaphthene	ND	330	48	1	B9E0909	05/28/2019	05/29/19 19:09	
Acenaphthylene	ND	330	51	1	B9E0909	05/28/2019	05/29/19 19:09	
Anthracene	ND	330	49	1	B9E0909	05/28/2019	05/29/19 19:09	
Benzidine (M)	ND	1600	1400	1	B9E0909	05/28/2019	05/29/19 19:09	
Benzo(a)anthracene	ND	330	39	1	B9E0909	05/28/2019	05/29/19 19:09	
Benzo(a)pyrene	ND	330	45	1	B9E0909	05/28/2019	05/29/19 19:09	
Benzo(b)fluoranthene	ND	330	55	1	B9E0909	05/28/2019	05/29/19 19:09	
Benzo(g,h,i)perylene	ND	330	38	1	B9E0909	05/28/2019	05/29/19 19:09	
Benzo(k)fluoranthene	ND	330	52	1	B9E0909	05/28/2019	05/29/19 19:09	
Benzoic acid	ND	1600	890	1	B9E0909	05/28/2019	05/29/19 19:09	
Benzyl alcohol	ND	660	67	1	B9E0909	05/28/2019	05/29/19 19:09	
bis(2-chloroethoxy)methane	ND	330	59	1	B9E0909	05/28/2019	05/29/19 19:09	
bis(2-Chloroethyl)ether	ND	330	57	1	B9E0909	05/28/2019	05/29/19 19:09	
bis(2-chloroisopropyl)ether	ND	330	65	1	B9E0909	05/28/2019	05/29/19 19:09	
bis(2-ethylhexyl)phthalate	ND	330	83	1	B9E0909	05/28/2019	05/29/19 19:09	
Butylbenzylphthalate	ND	330	250	1	B9E0909	05/28/2019	05/29/19 19:09	
Chrysene	ND	330	43	1	B9E0909	05/28/2019	05/29/19 19:09	
Di-n-butylphthalate	ND	330	230	1	B9E0909	05/28/2019	05/29/19 19:09	
Di-n-octylphthalate	ND	330	48	1	B9E0909	05/28/2019	05/29/19 19:09	
Dibenz(a,h)anthracene	ND	330	43	1	B9E0909	05/28/2019	05/29/19 19:09	
Dibenzofuran	ND	330	55	1	B9E0909	05/28/2019	05/29/19 19:09	
Diethyl phthalate	ND	330	47	1	B9E0909	05/28/2019	05/29/19 19:09	



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Client Sample ID WP8-0.5

Lab ID: 1902114-15

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dimethyl phthalate	ND	330	46	1	B9E0909	05/28/2019	05/29/19 19:09	
Fluoranthene	ND	330	47	1	B9E0909	05/28/2019	05/29/19 19:09	
Fluorene	ND	330	49	1	B9E0909	05/28/2019	05/29/19 19:09	
Hexachlorobenzene	ND	330	41	1	B9E0909	05/28/2019	05/29/19 19:09	
Hexachlorobutadiene	ND	660	61	1	B9E0909	05/28/2019	05/29/19 19:09	
Hexachlorocyclopentadiene	ND	660	64	1	B9E0909	05/28/2019	05/29/19 19:09	
Hexachloroethane	ND	330	71	1	B9E0909	05/28/2019	05/29/19 19:09	
Indeno(1,2,3-cd)pyrene	ND	330	44	1	B9E0909	05/28/2019	05/29/19 19:09	
Isophorone	ND	330	57	1	B9E0909	05/28/2019	05/29/19 19:09	
N-Nitroso-di-n propylamine	ND	330	65	1	B9E0909	05/28/2019	05/29/19 19:09	
N-Nitrosodiphenylamine	ND	330	48	1	B9E0909	05/28/2019	05/29/19 19:09	
Naphthalene	ND	330	60	1	B9E0909	05/28/2019	05/29/19 19:09	
Nitrobenzene	ND	330	67	1	B9E0909	05/28/2019	05/29/19 19:09	
Pentachlorophenol	ND	1600	190	1	B9E0909	05/28/2019	05/29/19 19:09	
Phenanthrene	ND	330	46	1	B9E0909	05/28/2019	05/29/19 19:09	
Phenol	ND	330	130	1	B9E0909	05/28/2019	05/29/19 19:09	
Pyrene	ND	330	53	1	B9E0909	05/28/2019	05/29/19 19:09	
Pyridine	ND	1600	270	1	B9E0909	05/28/2019	05/29/19 19:09	
<hr/>								
Surrogate: 1,2-Dichlorobenzene-d4	70.8 %		16 - 87		B9E0909	05/28/2019	05/29/19 19:09	
Surrogate: 2,4,6-Tribromophenol	127 %		0 - 148		B9E0909	05/28/2019	05/29/19 19:09	
Surrogate: 2-Chlorophenol-d4	68.3 %		17 - 96		B9E0909	05/28/2019	05/29/19 19:09	
Surrogate: 2-Fluorobiphenyl	81.5 %		16 - 107		B9E0909	05/28/2019	05/29/19 19:09	
Surrogate: 2-Fluorophenol	62.8 %		16 - 86		B9E0909	05/28/2019	05/29/19 19:09	
Surrogate: 4-Terphenyl-d14	86.2 %		3 - 156		B9E0909	05/28/2019	05/29/19 19:09	
Surrogate: Nitrobenzene-d5	67.9 %		16 - 99		B9E0909	05/28/2019	05/29/19 19:09	
Surrogate: Phenol-d6	69.3 %		17 - 90		B9E0909	05/28/2019	05/29/19 19:09	



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP9-0.5

Lab ID: 1902114-17

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:52	
Arsenic	7.4	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:52	
Barium	98	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:52	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:52	
Cadmium	0.38	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:52	J
Chromium	13	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:52	
Cobalt	7.6	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:52	
Copper	25	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:52	
Lead	23	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:52	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:52	
Nickel	10	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:52	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:52	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:52	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:52	
Vanadium	27	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:52	
Zinc	110	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:52	

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	0.007	1	B9E0959	05/30/2019	05/30/19 14:09	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	32	2.0	2.0	2	B9E0938	05/29/2019	05/30/19 00:58	
ORO	120	2.0	2.0	2	B9E0938	05/29/2019	05/30/19 00:58	
Surrogate: p-Terphenyl	94.5 %		34 - 158		B9E0938	05/29/2019	05/30/19 00:58	



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Client Sample ID WP9-0.5

Lab ID: 1902114-17

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	0.98	2.0	0.07	1	B9E0937	05/28/2019	05/30/19 05:33	J
4,4'-DDE	5.3	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 05:33	
4,4'-DDT	2.8	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:33	
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:33	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 05:33	
alpha-Chlordane	0.52	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:33	J
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 05:33	
Chlordane [2C]	5.3	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 05:33	J
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:33	
Dieldrin	ND	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 05:33	
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:33	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 05:33	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 05:33	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 05:33	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 05:33	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 05:33	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:33	
gamma-Chlordane [2C]	ND	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 05:33	
Heptachlor	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:33	
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 05:33	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 05:33	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 05:33	
<i>Surrogate: Decachlorobiphenyl</i>	<i>49.1 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 05:33</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>82.0 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 05:33</i>	



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Client Sample ID WP9-0.5

Lab ID: 1902114-17

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 15:16	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:16	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 15:16	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:16	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 15:16	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 15:16	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:16	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 15:16	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 15:16	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 15:16	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:16	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:16	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:16	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:16	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:16	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:16	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 15:16	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:16	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 15:16	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:16	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 15:16	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 15:16	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 15:16	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:16	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 15:16	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:16	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 15:16	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 15:16	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 15:16	



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Client Sample ID WP9-0.5

Lab ID: 1902114-17

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 15:16	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 15:16	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 15:16	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:16	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 15:16	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 15:16	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 15:16	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 15:16	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 15:16	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 15:16	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 15:16	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 15:16	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 15:16	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:16	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 15:16	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 15:16	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 15:16	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 15:16	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 15:16	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:16	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:16	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 15:16	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 15:16	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 15:16	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:16	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 15:16	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 15:16	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 15:16	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 15:16	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 15:16	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 15:16	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 15:16	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 15:16	

Surrogate: 1,2-Dichloroethane-d4	118 %	60 - 145	B9E0861	05/28/2019	05/28/19 15:16
Surrogate: 4-Bromofluorobenzene	92.4 %	68 - 121	B9E0861	05/28/2019	05/28/19 15:16
Surrogate: Dibromofluoromethane	105 %	65 - 137	B9E0861	05/28/2019	05/28/19 15:16
Surrogate: Toluene-d8	90.4 %	82 - 119	B9E0861	05/28/2019	05/28/19 15:16



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP9-0.5

Lab ID: 1902114-17

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	660	140	2	B9E0909	05/28/2019	05/29/19 19:35	D1
1,2-Dichlorobenzene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 19:35	D1
1,3-Dichlorobenzene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
1,4-Dichlorobenzene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2,4,5-Trichlorophenol	ND	660	120	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2,4,6-Trichlorophenol	ND	660	450	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2,4-Dichlorophenol	ND	3300	230	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2,4-Dimethylphenol	ND	660	240	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2,4-Dinitrophenol	ND	3300	170	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2,4-Dinitrotoluene	ND	660	91	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2,6-Dinitrotoluene	ND	660	98	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2-Chloronaphthalene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2-Chlorophenol	ND	660	240	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2-Methylnaphthalene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2-Methylphenol	ND	660	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2-Nitroaniline	ND	3300	410	2	B9E0909	05/28/2019	05/29/19 19:35	D1
2-Nitrophenol	ND	660	210	2	B9E0909	05/28/2019	05/29/19 19:35	D1
3,3'-Dichlorobenzidine	ND	1300	560	2	B9E0909	05/28/2019	05/29/19 19:35	D1
3-Nitroaniline	ND	3300	89	2	B9E0909	05/28/2019	05/29/19 19:35	D1
4,6-Dinitro-2-methylphenol	ND	3300	600	2	B9E0909	05/28/2019	05/29/19 19:35	D1
4-Bromophenyl-phenylether	ND	660	99	2	B9E0909	05/28/2019	05/29/19 19:35	D1
4-Chloro-3-methylphenol	ND	1300	210	2	B9E0909	05/28/2019	05/29/19 19:35	D1
4-Chloroaniline	ND	1300	110	2	B9E0909	05/28/2019	05/29/19 19:35	D1
4-Chlorophenyl-phenylether	ND	660	95	2	B9E0909	05/28/2019	05/29/19 19:35	D1
4-Methylphenol	ND	660	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
4-Nitroaniline	ND	3300	580	2	B9E0909	05/28/2019	05/29/19 19:35	D1
4-Nitrophenol	ND	660	300	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Acenaphthene	ND	660	97	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Acenaphthylene	ND	660	100	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Anthracene	ND	660	97	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Benzydine (M)	ND	3300	2900	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Benzo(a)anthracene	ND	660	78	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Benzo(a)pyrene	ND	660	91	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Benzo(b)fluoranthene	ND	660	110	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Benzo(g,h,i)perylene	ND	660	75	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Benzo(k)fluoranthene	ND	660	100	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Benzoic acid	ND	3300	1800	2	B9E0909	05/28/2019	05/29/19 19:35	D1



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Client Sample ID WP9-0.5

Lab ID: 1902114-17

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Benzyl alcohol	ND	1300	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
bis(2-chloroethoxy)methane	ND	660	120	2	B9E0909	05/28/2019	05/29/19 19:35	D1
bis(2-Chloroethyl)ether	ND	660	110	2	B9E0909	05/28/2019	05/29/19 19:35	D1
bis(2-chloroisopropyl)ether	ND	660	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
bis(2-ethylhexyl)phthalate	ND	660	170	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Butylbenzylphthalate	ND	660	490	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Chrysene	ND	660	86	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Di-n-butylphthalate	ND	660	450	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Di-n-octylphthalate	ND	660	96	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Dibenz(a,h)anthracene	ND	660	87	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Dibenzofuran	ND	660	110	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Diethyl phthalate	ND	660	95	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Dimethyl phthalate	ND	660	92	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Fluoranthene	ND	660	95	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Fluorene	ND	660	98	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Hexachlorobenzene	ND	660	82	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Hexachlorobutadiene	ND	1300	120	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Hexachlorocyclopentadiene	ND	1300	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Hexachloroethane	ND	660	140	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Indeno(1,2,3-cd)pyrene	ND	660	87	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Isophorone	ND	660	110	2	B9E0909	05/28/2019	05/29/19 19:35	D1
N-Nitroso-di-n propylamine	ND	660	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
N-Nitrosodiphenylamine	ND	660	96	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Naphthalene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Nitrobenzene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Pentachlorophenol	ND	3300	370	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Phenanthrene	ND	660	92	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Phenol	ND	660	260	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Pyrene	ND	660	110	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Pyridine	ND	3300	530	2	B9E0909	05/28/2019	05/29/19 19:35	D1
Surrogate: 1,2-Dichlorobenzene-d4	65.6 %		16 - 87		B9E0909	05/28/2019	05/29/19 19:35	
Surrogate: 2,4,6-Tribromophenol	124 %		0 - 148		B9E0909	05/28/2019	05/29/19 19:35	
Surrogate: 2-Chlorophenol-d4	66.6 %		17 - 96		B9E0909	05/28/2019	05/29/19 19:35	
Surrogate: 2-Fluorobiphenyl	82.2 %		16 - 107		B9E0909	05/28/2019	05/29/19 19:35	
Surrogate: 2-Fluorophenol	59.1 %		16 - 86		B9E0909	05/28/2019	05/29/19 19:35	
Surrogate: 4-Terphenyl-d14	87.6 %		3 - 156		B9E0909	05/28/2019	05/29/19 19:35	
Surrogate: Nitrobenzene-d5	66.9 %		16 - 99		B9E0909	05/28/2019	05/29/19 19:35	



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

Client Sample ID WP9-0.5

Lab ID: 1902114-17

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Phenol-d6	68.1 %	17 - 90		B9E0909	05/28/2019	05/29/19 19:35	



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Client Sample ID WP10-0.5

Lab ID: 1902114-19

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:53	
Arsenic	5.5	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:53	
Barium	90	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:53	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:53	
Cadmium	0.32	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:53	J
Chromium	12	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:53	
Cobalt	6.7	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:53	
Copper	24	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:53	
Lead	24	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:53	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:53	
Nickel	9.1	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:53	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:53	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:53	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:53	
Vanadium	24	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:53	
Zinc	99	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:53	

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	0.007	1	B9E0959	05/30/2019	05/30/19 14:11	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	38	2.0	2.0	2	B9E0938	05/29/2019	05/30/19 01:15	
ORO	140	2.0	2.0	2	B9E0938	05/29/2019	05/30/19 01:15	
Surrogate: p-Terphenyl	96.9 %		34 - 158		B9E0938	05/29/2019	05/30/19 01:15	



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Lab ID: 1902114-19

Organochlorine Pesticides by EPA 8081

Analyst: KD

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	B9E0937	05/28/2019	05/30/19 05:43	
4,4'-DDE	ND	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 05:43	
4,4'-DDT	ND	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:43	
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:43	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 05:43	
alpha-Chlordane	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:43	
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 05:43	
Chlordane	ND	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 05:43	
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:43	
Dieldrin	ND	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 05:43	
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:43	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 05:43	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 05:43	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 05:43	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 05:43	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 05:43	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 05:43	
gamma-Chlordane	ND	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 05:43	
Heptachlor	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 05:43	
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 05:43	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 05:43	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 05:43	
Surrogate: Decachlorobiphenyl	61.0 %		32 - 91		B9E0937	05/28/2019	05/30/19 05:43	
Surrogate: Tetrachloro-m-xylene	75.8 %		38 - 93		B9E0937	05/28/2019	05/30/19 05:43	



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP10-0.5

Lab ID: 1902114-19

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 15:35	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:35	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 15:35	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:35	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 15:35	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 15:35	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:35	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 15:35	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 15:35	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 15:35	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:35	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:35	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:35	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:35	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:35	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:35	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 15:35	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:35	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 15:35	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:35	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 15:35	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 15:35	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 15:35	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:35	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 15:35	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:35	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 15:35	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 15:35	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 15:35	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP10-0.5

Lab ID: 1902114-19

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 15:35	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 15:35	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 15:35	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:35	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 15:35	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 15:35	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 15:35	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 15:35	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 15:35	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 15:35	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 15:35	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 15:35	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 15:35	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:35	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 15:35	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 15:35	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 15:35	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 15:35	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 15:35	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:35	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:35	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 15:35	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 15:35	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 15:35	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:35	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 15:35	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 15:35	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 15:35	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 15:35	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 15:35	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 15:35	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 15:35	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 15:35	
Surrogate: 1,2-Dichloroethane-d4	126 %		60 - 145		B9E0861	05/28/2019	05/28/19 15:35	
Surrogate: 1,2-Dichloroethane-d4	109 %		60 - 145		B9E0861	05/28/2019	05/28/19 15:35	
Surrogate: 4-Bromofluorobenzene	105 %		68 - 121		B9E0861	05/28/2019	05/28/19 15:35	
Surrogate: 4-Bromofluorobenzene	102 %		68 - 121		B9E0861	05/28/2019	05/28/19 15:35	



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Client Sample ID WP10-0.5

Lab ID: 1902114-19

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Dibromofluoromethane</i>	111 %	65 - 137		B9E0861	05/28/2019	05/28/19 15:35	
<i>Surrogate: Dibromofluoromethane</i>	94.9 %	65 - 137		B9E0861	05/28/2019	05/28/19 15:35	
<i>Surrogate: Toluene-d8</i>	92.8 %	82 - 119		B9E0861	05/28/2019	05/28/19 15:35	
<i>Surrogate: Toluene-d8</i>	92.8 %	82 - 119		B9E0861	05/28/2019	05/28/19 15:35	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	1600	350	5	B9E0909	05/28/2019	05/29/19 20:01	D1
1,2-Dichlorobenzene	ND	1600	300	5	B9E0909	05/28/2019	05/29/19 20:01	D1
1,3-Dichlorobenzene	ND	1600	320	5	B9E0909	05/28/2019	05/29/19 20:01	D1
1,4-Dichlorobenzene	ND	1600	300	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2,4,5-Trichlorophenol	ND	1600	310	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2,4,6-Trichlorophenol	ND	1600	1100	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2,4-Dichlorophenol	ND	8200	580	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2,4-Dimethylphenol	ND	1600	590	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2,4-Dinitrophenol	ND	8200	430	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2,4-Dinitrotoluene	ND	1600	230	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2,6-Dinitrotoluene	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2-Chloronaphthalene	ND	1600	290	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2-Chlorophenol	ND	1600	600	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2-Methylnaphthalene	ND	1600	330	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2-Methylphenol	ND	1600	340	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2-Nitroaniline	ND	8200	1000	5	B9E0909	05/28/2019	05/29/19 20:01	D1
2-Nitrophenol	ND	1600	530	5	B9E0909	05/28/2019	05/29/19 20:01	D1
3,3'-Dichlorobenzidine	ND	3300	1400	5	B9E0909	05/28/2019	05/29/19 20:01	D1
3-Nitroaniline	ND	8200	220	5	B9E0909	05/28/2019	05/29/19 20:01	D1
4,6-Dinitro-2-methylphenol	ND	8200	1500	5	B9E0909	05/28/2019	05/29/19 20:01	D1
4-Bromophenyl-phenylether	ND	1600	250	5	B9E0909	05/28/2019	05/29/19 20:01	D1
4-Chloro-3-methylphenol	ND	3300	540	5	B9E0909	05/28/2019	05/29/19 20:01	D1
4-Chloroaniline	ND	3300	260	5	B9E0909	05/28/2019	05/29/19 20:01	D1
4-Chlorophenyl-phenylether	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 20:01	D1
4-Methylphenol	ND	1600	330	5	B9E0909	05/28/2019	05/29/19 20:01	D1
4-Nitroaniline	ND	8200	1400	5	B9E0909	05/28/2019	05/29/19 20:01	D1
4-Nitrophenol	ND	1600	760	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Acenaphthene	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 20:01	D1



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Client Sample ID WP10-0.5

Lab ID: 1902114-19

Semivolatiles Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	1600	260	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Anthracene	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Benzidine (M)	ND	8200	7100	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Benzo(a)anthracene	ND	1600	200	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Benzo(a)pyrene	ND	1600	230	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Benzo(b)fluoranthene	ND	1600	280	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Benzo(g,h,i)perylene	ND	1600	190	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Benzo(k)fluoranthene	ND	1600	260	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Benzoic acid	ND	8200	4500	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Benzyl alcohol	ND	3300	340	5	B9E0909	05/28/2019	05/29/19 20:01	D1
bis(2-chloroethoxy)methane	ND	1600	300	5	B9E0909	05/28/2019	05/29/19 20:01	D1
bis(2-Chloroethyl)ether	ND	1600	290	5	B9E0909	05/28/2019	05/29/19 20:01	D1
bis(2-chloroisopropyl)ether	ND	1600	320	5	B9E0909	05/28/2019	05/29/19 20:01	D1
bis(2-ethylhexyl)phthalate	ND	1600	410	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Butylbenzylphthalate	ND	1600	1200	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Chrysene	ND	1600	210	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Di-n-butylphthalate	ND	1600	1100	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Di-n-octylphthalate	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Dibenz(a,h)anthracene	ND	1600	220	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Dibenzofuran	ND	1600	270	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Diethyl phthalate	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Dimethyl phthalate	ND	1600	230	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Fluoranthene	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Fluorene	ND	1600	250	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Hexachlorobenzene	ND	1600	200	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Hexachlorobutadiene	ND	3300	310	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Hexachlorocyclopentadiene	ND	3300	320	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Hexachloroethane	ND	1600	360	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Indeno(1,2,3-cd)pyrene	ND	1600	220	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Isophorone	ND	1600	290	5	B9E0909	05/28/2019	05/29/19 20:01	D1
N-Nitroso-di-n propylamine	ND	1600	330	5	B9E0909	05/28/2019	05/29/19 20:01	D1
N-Nitrosodiphenylamine	ND	1600	240	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Naphthalene	ND	1600	300	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Nitrobenzene	ND	1600	340	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Pentachlorophenol	ND	8200	930	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Phenanthrene	ND	1600	230	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Phenol	ND	1600	650	5	B9E0909	05/28/2019	05/29/19 20:01	D1



Certificate of Analysis

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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

Client Sample ID WP10-0.5

Lab ID: 1902114-19

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	1600	270	5	B9E0909	05/28/2019	05/29/19 20:01	D1
Pyridine	ND	8200	1300	5	B9E0909	05/28/2019	05/29/19 20:01	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>70.3 %</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 20:01</i>	
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>110 %</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 20:01</i>	
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>67.5 %</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 20:01</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>79.4 %</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 20:01</i>	
<i>Surrogate: 2-Fluorophenol</i>	<i>59.9 %</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 20:01</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>78.1 %</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 20:01</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>66.0 %</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 20:01</i>	
<i>Surrogate: Phenol-d6</i>	<i>65.2 %</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 20:01</i>	



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Client Sample ID WP11-0.5

Lab ID: 1902114-20

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:55	
Arsenic	13	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:55	
Barium	85	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:55	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:55	
Cadmium	0.42	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:55	J
Chromium	12	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:55	
Cobalt	6.1	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:55	
Copper	48	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:55	
Lead	39	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:55	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:55	
Nickel	8.7	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:55	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:55	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:55	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:55	
Vanadium	24	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:55	
Zinc	110	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:55	

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	0.007	1	B9E0959	05/30/2019	05/30/19 14:13	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	19	1.0	1.0	1	B9E0938	05/29/2019	05/29/19 23:35	
ORO	46	1.0	1.0	1	B9E0938	05/29/2019	05/29/19 23:35	
Surrogate: p-Terphenyl	104 %		34 - 158		B9E0938	05/29/2019	05/29/19 23:35	



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Lab ID: 1902114-20

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	17	20	0.70	10	B9E0937	05/28/2019	05/30/19 11:43	J
4,4'-DDE	140	20	1.1	10	B9E0937	05/28/2019	05/30/19 11:43	
4,4'-DDT [2C]	110	20	1.0	10	B9E0937	05/28/2019	05/30/19 11:43	
Aldrin	ND	10	1.2	10	B9E0937	05/28/2019	05/30/19 11:43	
alpha-BHC	ND	10	1.1	10	B9E0937	05/28/2019	05/30/19 11:43	
alpha-Chlordane	ND	10	1.2	10	B9E0937	05/28/2019	05/30/19 11:43	
beta-BHC	ND	10	0.60	10	B9E0937	05/28/2019	05/30/19 11:43	
Chlordane	ND	85	11	10	B9E0937	05/28/2019	05/30/19 11:43	
delta-BHC	ND	10	1.2	10	B9E0937	05/28/2019	05/30/19 11:43	
Dieldrin [2C]	20	20	2.6	10	B9E0937	05/28/2019	05/30/19 11:43	
Endosulfan I	ND	10	1.0	10	B9E0937	05/28/2019	05/30/19 11:43	
Endosulfan II	ND	20	1.5	10	B9E0937	05/28/2019	05/30/19 11:43	
Endosulfan sulfate	ND	20	1.6	10	B9E0937	05/28/2019	05/30/19 11:43	
Endrin	ND	20	1.4	10	B9E0937	05/28/2019	05/30/19 11:43	
Endrin aldehyde	ND	20	3.1	10	B9E0937	05/28/2019	05/30/19 11:43	
Endrin ketone	ND	20	1.3	10	B9E0937	05/28/2019	05/30/19 11:43	
gamma-BHC	ND	10	1.0	10	B9E0937	05/28/2019	05/30/19 11:43	
gamma-Chlordane	ND	10	8.9	10	B9E0937	05/28/2019	05/30/19 11:43	
Heptachlor	ND	10	1.2	10	B9E0937	05/28/2019	05/30/19 11:43	
Heptachlor epoxide	ND	10	0.89	10	B9E0937	05/28/2019	05/30/19 11:43	
Methoxychlor	ND	50	1.8	10	B9E0937	05/28/2019	05/30/19 11:43	
Toxaphene	ND	500	47	10	B9E0937	05/28/2019	05/30/19 11:43	
<i>Surrogate: Decachlorobiphenyl</i>	<i>77.7 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 11:43</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>93.0 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 11:43</i>	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP11-0.5

Lab ID: 1902114-20

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 15:54	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:54	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 15:54	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:54	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 15:54	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 15:54	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:54	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 15:54	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 15:54	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 15:54	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:54	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:54	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:54	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:54	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:54	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:54	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 15:54	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:54	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 15:54	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:54	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 15:54	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 15:54	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 15:54	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 15:54	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 15:54	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 15:54	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 15:54	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 15:54	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 15:54	



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Client Sample ID WP11-0.5

Lab ID: 1902114-20

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 15:54	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 15:54	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 15:54	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:54	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 15:54	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 15:54	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 15:54	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 15:54	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 15:54	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 15:54	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 15:54	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 15:54	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 15:54	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:54	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 15:54	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 15:54	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 15:54	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 15:54	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 15:54	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 15:54	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 15:54	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 15:54	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 15:54	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 15:54	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 15:54	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 15:54	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 15:54	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 15:54	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 15:54	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 15:54	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 15:54	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 15:54	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 15:54	
Surrogate: 1,2-Dichloroethane-d4	106 %		60 - 145		B9E0861	05/28/2019	05/28/19 15:54	
Surrogate: 1,2-Dichloroethane-d4	124 %		60 - 145		B9E0861	05/28/2019	05/28/19 15:54	
Surrogate: 4-Bromofluorobenzene	98.6 %		68 - 121		B9E0861	05/28/2019	05/28/19 15:54	
Surrogate: 4-Bromofluorobenzene	96.0 %		68 - 121		B9E0861	05/28/2019	05/28/19 15:54	



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Client Sample ID WP11-0.5

Lab ID: 1902114-20

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Dibromofluoromethane</i>	95.1 %	65 - 137		B9E0861	05/28/2019	05/28/19 15:54	
<i>Surrogate: Dibromofluoromethane</i>	111 %	65 - 137		B9E0861	05/28/2019	05/28/19 15:54	
<i>Surrogate: Toluene-d8</i>	93.1 %	82 - 119		B9E0861	05/28/2019	05/28/19 15:54	
<i>Surrogate: Toluene-d8</i>	93.0 %	82 - 119		B9E0861	05/28/2019	05/28/19 15:54	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	660	140	2	B9E0909	05/28/2019	05/29/19 20:27	D1
1,2-Dichlorobenzene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 20:27	D1
1,3-Dichlorobenzene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
1,4-Dichlorobenzene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2,4,5-Trichlorophenol	ND	660	120	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2,4,6-Trichlorophenol	ND	660	450	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2,4-Dichlorophenol	ND	3300	230	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2,4-Dimethylphenol	ND	660	240	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2,4-Dinitrophenol	ND	3300	170	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2,4-Dinitrotoluene	ND	660	91	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2,6-Dinitrotoluene	ND	660	98	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2-Chloronaphthalene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2-Chlorophenol	ND	660	240	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2-Methylnaphthalene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2-Methylphenol	ND	660	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2-Nitroaniline	ND	3300	410	2	B9E0909	05/28/2019	05/29/19 20:27	D1
2-Nitrophenol	ND	660	210	2	B9E0909	05/28/2019	05/29/19 20:27	D1
3,3'-Dichlorobenzidine	ND	1300	560	2	B9E0909	05/28/2019	05/29/19 20:27	D1
3-Nitroaniline	ND	3300	89	2	B9E0909	05/28/2019	05/29/19 20:27	D1
4,6-Dinitro-2-methylphenol	ND	3300	600	2	B9E0909	05/28/2019	05/29/19 20:27	D1
4-Bromophenyl-phenylether	ND	660	99	2	B9E0909	05/28/2019	05/29/19 20:27	D1
4-Chloro-3-methylphenol	ND	1300	210	2	B9E0909	05/28/2019	05/29/19 20:27	D1
4-Chloroaniline	ND	1300	110	2	B9E0909	05/28/2019	05/29/19 20:27	D1
4-Chlorophenyl-phenylether	ND	660	95	2	B9E0909	05/28/2019	05/29/19 20:27	D1
4-Methylphenol	ND	660	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
4-Nitroaniline	ND	3300	580	2	B9E0909	05/28/2019	05/29/19 20:27	D1
4-Nitrophenol	ND	660	300	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Acenaphthene	ND	660	97	2	B9E0909	05/28/2019	05/29/19 20:27	D1



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Client Sample ID WP11-0.5

Lab ID: 1902114-20

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	660	100	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Anthracene	ND	660	97	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Benzidine (M)	ND	3300	2900	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Benzo(a)anthracene	ND	660	78	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Benzo(a)pyrene	ND	660	91	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Benzo(b)fluoranthene	ND	660	110	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Benzo(g,h,i)perylene	ND	660	75	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Benzo(k)fluoranthene	ND	660	100	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Benzoic acid	ND	3300	1800	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Benzyl alcohol	ND	1300	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
bis(2-chloroethoxy)methane	ND	660	120	2	B9E0909	05/28/2019	05/29/19 20:27	D1
bis(2-Chloroethyl)ether	ND	660	110	2	B9E0909	05/28/2019	05/29/19 20:27	D1
bis(2-chloroisopropyl)ether	ND	660	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
bis(2-ethylhexyl)phthalate	ND	660	170	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Butylbenzylphthalate	ND	660	490	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Chrysene	ND	660	86	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Di-n-butylphthalate	ND	660	450	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Di-n-octylphthalate	ND	660	96	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Dibenz(a,h)anthracene	ND	660	87	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Dibenzofuran	ND	660	110	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Diethyl phthalate	ND	660	95	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Dimethyl phthalate	ND	660	92	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Fluoranthene	ND	660	95	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Fluorene	ND	660	98	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Hexachlorobenzene	ND	660	82	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Hexachlorobutadiene	ND	1300	120	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Hexachlorocyclopentadiene	ND	1300	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Hexachloroethane	ND	660	140	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Indeno(1,2,3-cd)pyrene	ND	660	87	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Isophorone	ND	660	110	2	B9E0909	05/28/2019	05/29/19 20:27	D1
N-Nitroso-di-n propylamine	ND	660	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
N-Nitrosodiphenylamine	ND	660	96	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Naphthalene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Nitrobenzene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Pentachlorophenol	ND	3300	370	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Phenanthrene	ND	660	92	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Phenol	ND	660	260	2	B9E0909	05/28/2019	05/29/19 20:27	D1



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Lab ID: 1902114-20

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	660	110	2	B9E0909	05/28/2019	05/29/19 20:27	D1
Pyridine	ND	3300	530	2	B9E0909	05/28/2019	05/29/19 20:27	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>67.2 %</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 20:27</i>	
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>123 %</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 20:27</i>	
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>66.3 %</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 20:27</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>81.4 %</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 20:27</i>	
<i>Surrogate: 2-Fluorophenol</i>	<i>59.2 %</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 20:27</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>86.9 %</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 20:27</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>67.8 %</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 20:27</i>	
<i>Surrogate: Phenol-d6</i>	<i>67.3 %</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 20:27</i>	



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Client Sample ID WP12-0.5

Lab ID: 1902114-23

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:56	
Arsenic	4.5	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:56	
Barium	59	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:56	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:56	
Cadmium	ND	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:56	
Chromium	5.7	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:56	
Cobalt	3.7	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:56	
Copper	8.6	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:56	
Lead	2.9	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:56	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:56	
Nickel	3.8	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:56	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:56	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:56	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:56	
Vanadium	20	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:56	
Zinc	23	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:56	

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	0.01	0.10	0.007	1	B9E0959	05/30/2019	05/30/19 14:15	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	3.9	1.0	1.0	1	B9E0938	05/29/2019	05/29/19 23:18	
ORO	7.0	1.0	1.0	1	B9E0938	05/29/2019	05/29/19 23:18	
Surrogate: <i>p</i> -Terphenyl	99.4 %		34 - 158		B9E0938	05/29/2019	05/29/19 23:18	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP12-0.5

Lab ID: 1902114-23

Organochlorine Pesticides by EPA 8081

Analyst: KD

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	B9E0937	05/28/2019	05/30/19 06:15	
4,4'-DDE	0.42	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 06:15	J
4,4'-DDT	ND	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:15	
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:15	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 06:15	
alpha-Chlordane	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:15	
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 06:15	
Chlordane	ND	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 06:15	
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:15	
Dieldrin	ND	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 06:15	
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:15	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 06:15	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 06:15	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 06:15	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 06:15	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 06:15	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:15	
gamma-Chlordane	ND	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 06:15	
Heptachlor	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:15	
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 06:15	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 06:15	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 06:15	
<i>Surrogate: Decachlorobiphenyl</i>	<i>51.8 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 06:15</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>87.6 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 06:15</i>	



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Client Sample ID WP12-0.5

Lab ID: 1902114-23

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 16:13	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:13	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 16:13	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:13	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 16:13	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 16:13	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:13	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 16:13	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 16:13	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 16:13	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:13	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:13	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:13	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:13	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:13	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:13	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 16:13	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:13	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 16:13	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:13	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 16:13	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 16:13	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 16:13	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:13	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 16:13	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:13	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 16:13	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 16:13	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 16:13	



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Client Sample ID WP12-0.5

Lab ID: 1902114-23

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 16:13	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 16:13	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 16:13	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:13	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 16:13	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 16:13	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 16:13	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 16:13	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 16:13	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 16:13	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 16:13	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 16:13	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 16:13	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:13	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 16:13	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 16:13	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 16:13	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 16:13	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 16:13	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:13	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:13	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 16:13	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 16:13	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 16:13	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:13	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 16:13	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 16:13	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 16:13	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 16:13	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 16:13	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 16:13	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 16:13	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 16:13	
Surrogate: 1,2-Dichloroethane-d4	110 %		60 - 145		B9E0861	05/28/2019	05/28/19 16:13	
Surrogate: 1,2-Dichloroethane-d4	127 %		60 - 145		B9E0861	05/28/2019	05/28/19 16:13	
Surrogate: 4-Bromofluorobenzene	101 %		68 - 121		B9E0861	05/28/2019	05/28/19 16:13	
Surrogate: 4-Bromofluorobenzene	97.6 %		68 - 121		B9E0861	05/28/2019	05/28/19 16:13	



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Client Sample ID WP12-0.5

Lab ID: 1902114-23

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
<i>Surrogate: Dibromofluoromethane</i>	113 %	65 - 137		B9E0861	05/28/2019	05/28/19 16:13	
<i>Surrogate: Dibromofluoromethane</i>	97.1 %	65 - 137		B9E0861	05/28/2019	05/28/19 16:13	
<i>Surrogate: Toluene-d8</i>	94.8 %	82 - 119		B9E0861	05/28/2019	05/28/19 16:13	
<i>Surrogate: Toluene-d8</i>	94.7 %	82 - 119		B9E0861	05/28/2019	05/28/19 16:13	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	330	71	1	B9E0909	05/28/2019	05/29/19 20:54	
1,2-Dichlorobenzene	ND	330	60	1	B9E0909	05/28/2019	05/29/19 20:54	
1,3-Dichlorobenzene	ND	330	65	1	B9E0909	05/28/2019	05/29/19 20:54	
1,4-Dichlorobenzene	ND	330	60	1	B9E0909	05/28/2019	05/29/19 20:54	
2,4,5-Trichlorophenol	ND	330	61	1	B9E0909	05/28/2019	05/29/19 20:54	
2,4,6-Trichlorophenol	ND	330	220	1	B9E0909	05/28/2019	05/29/19 20:54	
2,4-Dichlorophenol	ND	1600	120	1	B9E0909	05/28/2019	05/29/19 20:54	
2,4-Dimethylphenol	ND	330	120	1	B9E0909	05/28/2019	05/29/19 20:54	
2,4-Dinitrophenol	ND	1600	86	1	B9E0909	05/28/2019	05/29/19 20:54	
2,4-Dinitrotoluene	ND	330	46	1	B9E0909	05/28/2019	05/29/19 20:54	
2,6-Dinitrotoluene	ND	330	49	1	B9E0909	05/28/2019	05/29/19 20:54	
2-Chloronaphthalene	ND	330	59	1	B9E0909	05/28/2019	05/29/19 20:54	
2-Chlorophenol	ND	330	120	1	B9E0909	05/28/2019	05/29/19 20:54	
2-Methylnaphthalene	ND	330	67	1	B9E0909	05/28/2019	05/29/19 20:54	
2-Methylphenol	ND	330	67	1	B9E0909	05/28/2019	05/29/19 20:54	
2-Nitroaniline	ND	1600	200	1	B9E0909	05/28/2019	05/29/19 20:54	
2-Nitrophenol	ND	330	110	1	B9E0909	05/28/2019	05/29/19 20:54	
3,3'-Dichlorobenzidine	ND	660	280	1	B9E0909	05/28/2019	05/29/19 20:54	
3-Nitroaniline	ND	1600	44	1	B9E0909	05/28/2019	05/29/19 20:54	
4,6-Dinitro-2-methylphenol	ND	1600	300	1	B9E0909	05/28/2019	05/29/19 20:54	
4-Bromophenyl-phenylether	ND	330	50	1	B9E0909	05/28/2019	05/29/19 20:54	
4-Chloro-3-methylphenol	ND	660	110	1	B9E0909	05/28/2019	05/29/19 20:54	
4-Chloroaniline	ND	660	53	1	B9E0909	05/28/2019	05/29/19 20:54	
4-Chlorophenyl-phenylether	ND	330	48	1	B9E0909	05/28/2019	05/29/19 20:54	
4-Methylphenol	ND	330	66	1	B9E0909	05/28/2019	05/29/19 20:54	
4-Nitroaniline	ND	1600	290	1	B9E0909	05/28/2019	05/29/19 20:54	
4-Nitrophenol	ND	330	150	1	B9E0909	05/28/2019	05/29/19 20:54	
Acenaphthene	ND	330	48	1	B9E0909	05/28/2019	05/29/19 20:54	



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Lab ID: 1902114-23

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	330	51	1	B9E0909	05/28/2019	05/29/19 20:54	
Anthracene	ND	330	49	1	B9E0909	05/28/2019	05/29/19 20:54	
Benzidine (M)	ND	1600	1400	1	B9E0909	05/28/2019	05/29/19 20:54	
Benzo(a)anthracene	ND	330	39	1	B9E0909	05/28/2019	05/29/19 20:54	
Benzo(a)pyrene	ND	330	45	1	B9E0909	05/28/2019	05/29/19 20:54	
Benzo(b)fluoranthene	ND	330	55	1	B9E0909	05/28/2019	05/29/19 20:54	
Benzo(g,h,i)perylene	ND	330	38	1	B9E0909	05/28/2019	05/29/19 20:54	
Benzo(k)fluoranthene	ND	330	52	1	B9E0909	05/28/2019	05/29/19 20:54	
Benzoic acid	ND	1600	890	1	B9E0909	05/28/2019	05/29/19 20:54	
Benzyl alcohol	ND	660	67	1	B9E0909	05/28/2019	05/29/19 20:54	
bis(2-chloroethoxy)methane	ND	330	59	1	B9E0909	05/28/2019	05/29/19 20:54	
bis(2-Chloroethyl)ether	ND	330	57	1	B9E0909	05/28/2019	05/29/19 20:54	
bis(2-chloroisopropyl)ether	ND	330	65	1	B9E0909	05/28/2019	05/29/19 20:54	
bis(2-ethylhexyl)phthalate	ND	330	83	1	B9E0909	05/28/2019	05/29/19 20:54	
Butylbenzylphthalate	ND	330	250	1	B9E0909	05/28/2019	05/29/19 20:54	
Chrysene	ND	330	43	1	B9E0909	05/28/2019	05/29/19 20:54	
Di-n-butylphthalate	ND	330	230	1	B9E0909	05/28/2019	05/29/19 20:54	
Di-n-octylphthalate	ND	330	48	1	B9E0909	05/28/2019	05/29/19 20:54	
Dibenz(a,h)anthracene	ND	330	43	1	B9E0909	05/28/2019	05/29/19 20:54	
Dibenzofuran	ND	330	55	1	B9E0909	05/28/2019	05/29/19 20:54	
Diethyl phthalate	ND	330	47	1	B9E0909	05/28/2019	05/29/19 20:54	
Dimethyl phthalate	ND	330	46	1	B9E0909	05/28/2019	05/29/19 20:54	
Fluoranthene	ND	330	47	1	B9E0909	05/28/2019	05/29/19 20:54	
Fluorene	ND	330	49	1	B9E0909	05/28/2019	05/29/19 20:54	
Hexachlorobenzene	ND	330	41	1	B9E0909	05/28/2019	05/29/19 20:54	
Hexachlorobutadiene	ND	660	61	1	B9E0909	05/28/2019	05/29/19 20:54	
Hexachlorocyclopentadiene	ND	660	64	1	B9E0909	05/28/2019	05/29/19 20:54	
Hexachloroethane	ND	330	71	1	B9E0909	05/28/2019	05/29/19 20:54	
Indeno(1,2,3-cd)pyrene	ND	330	44	1	B9E0909	05/28/2019	05/29/19 20:54	
Isophorone	ND	330	57	1	B9E0909	05/28/2019	05/29/19 20:54	
N-Nitroso-di-n propylamine	ND	330	65	1	B9E0909	05/28/2019	05/29/19 20:54	
N-Nitrosodiphenylamine	ND	330	48	1	B9E0909	05/28/2019	05/29/19 20:54	
Naphthalene	ND	330	60	1	B9E0909	05/28/2019	05/29/19 20:54	
Nitrobenzene	ND	330	67	1	B9E0909	05/28/2019	05/29/19 20:54	
Pentachlorophenol	ND	1600	190	1	B9E0909	05/28/2019	05/29/19 20:54	
Phenanthrene	ND	330	46	1	B9E0909	05/28/2019	05/29/19 20:54	
Phenol	ND	330	130	1	B9E0909	05/28/2019	05/29/19 20:54	



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Leighton Consulting, Inc.
17781 Cowan Street
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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP12-0.5

Lab ID: 1902114-23

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	330	53	1	B9E0909	05/28/2019	05/29/19 20:54	
Pyridine	ND	1600	270	1	B9E0909	05/28/2019	05/29/19 20:54	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>72.0 %</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 20:54</i>	
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>148 %</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 20:54</i>	
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>71.2 %</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 20:54</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>92.9 %</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 20:54</i>	
<i>Surrogate: 2-Fluorophenol</i>	<i>64.6 %</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 20:54</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>105 %</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 20:54</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>72.9 %</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 20:54</i>	
<i>Surrogate: Phenol-d6</i>	<i>70.9 %</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 20:54</i>	



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Project Number : LAUSD - Jordan High School, 11640.011
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Client Sample ID WP13-0.5

Lab ID: 1902114-25

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:57	
Arsenic	4.3	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:57	
Barium	84	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:57	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:57	
Cadmium	0.27	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:57	J
Chromium	11	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:57	
Cobalt	7.0	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:57	
Copper	20	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:57	
Lead	15	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:57	
Molybdenum	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:57	
Nickel	8.9	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:57	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:57	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:57	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:57	
Vanadium	25	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:57	
Zinc	70	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:57	

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	0.007	1	B9E0959	05/30/2019	05/30/19 14:17	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	45	2.0	2.0	2	B9E0938	05/29/2019	05/30/19 00:25	
ORO	140	2.0	2.0	2	B9E0938	05/29/2019	05/30/19 00:25	
Surrogate: p-Terphenyl	105 %		34 - 158		B9E0938	05/29/2019	05/30/19 00:25	



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Client Sample ID WP13-0.5

Lab ID: 1902114-25

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	0.44	2.0	0.07	1	B9E0937	05/28/2019	05/30/19 06:25	J
4,4'-DDE	1.4	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 06:25	J
4,4'-DDT	ND	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:25	
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:25	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 06:25	
alpha-Chlordane	0.44	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:25	J
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 06:25	
Chlordane [2C]	3.7	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 06:25	J
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:25	
Dieldrin	ND	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 06:25	
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:25	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 06:25	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 06:25	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 06:25	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 06:25	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 06:25	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:25	
gamma-Chlordane [2C]	ND	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 06:25	
Heptachlor	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:25	
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 06:25	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 06:25	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 06:25	
<i>Surrogate: Decachlorobiphenyl</i>	<i>54.5 %</i>		<i>32 - 91</i>		B9E0937	05/28/2019	<i>05/30/19 06:25</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>90.2 %</i>		<i>38 - 93</i>		B9E0937	05/28/2019	<i>05/30/19 06:25</i>	



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Client Sample ID WP13-0.5

Lab ID: 1902114-25

Polychlorinated Biphenyls by EPA 8082

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
Aroclor 1221	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
Aroclor 1232	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
Aroclor 1242	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
Aroclor 1248	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
Aroclor 1254	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
Aroclor 1260	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
Aroclor 1262	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
Aroclor 1268	ND	16	4.6	1	B9E0937	05/28/2019	05/29/19 17:55	
<i>Surrogate: Decachlorobiphenyl</i>	<i>96.0 %</i>		<i>38 - 117</i>		B9E0937	05/28/2019	05/29/19 17:55	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>89.0 %</i>		<i>39 - 121</i>		B9E0937	05/28/2019	05/29/19 17:55	

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 16:32	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:32	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 16:32	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:32	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 16:32	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 16:32	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:32	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 16:32	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 16:32	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 16:32	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:32	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:32	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:32	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Currency

Reported : 05/30/2019

Client Sample ID WP13-0.5

Lab ID: 1902114-25

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:32	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:32	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:32	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 16:32	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:32	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 16:32	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:32	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 16:32	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 16:32	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 16:32	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:32	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 16:32	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:32	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 16:32	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 16:32	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 16:32	
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 16:32	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 16:32	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 16:32	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:32	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 16:32	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 16:32	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 16:32	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 16:32	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 16:32	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 16:32	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 16:32	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 16:32	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 16:32	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:32	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 16:32	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 16:32	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 16:32	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 16:32	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 16:32	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:32	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:32	



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
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Client Sample ID WP13-0.5

Lab ID: 1902114-25

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 16:32	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 16:32	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 16:32	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:32	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 16:32	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 16:32	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 16:32	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 16:32	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 16:32	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 16:32	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 16:32	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 16:32	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>125 %</i>	<i>60 - 145</i>			B9E0861	05/28/2019	<i>05/28/19 16:32</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>107 %</i>	<i>60 - 145</i>			B9E0861	05/28/2019	<i>05/28/19 16:32</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>99.2 %</i>	<i>68 - 121</i>			B9E0861	05/28/2019	<i>05/28/19 16:32</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.8 %</i>	<i>68 - 121</i>			B9E0861	05/28/2019	<i>05/28/19 16:32</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>108 %</i>	<i>65 - 137</i>			B9E0861	05/28/2019	<i>05/28/19 16:32</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>92.7 %</i>	<i>65 - 137</i>			B9E0861	05/28/2019	<i>05/28/19 16:32</i>	
<i>Surrogate: Toluene-d8</i>	<i>94.9 %</i>	<i>82 - 119</i>			B9E0861	05/28/2019	<i>05/28/19 16:32</i>	
<i>Surrogate: Toluene-d8</i>	<i>94.9 %</i>	<i>82 - 119</i>			B9E0861	05/28/2019	<i>05/28/19 16:32</i>	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	6600	1400	20	B9E0909	05/28/2019	05/29/19 15:39	D1
1,2-Dichlorobenzene	ND	6600	1200	20	B9E0909	05/28/2019	05/29/19 15:39	D1
1,3-Dichlorobenzene	ND	6600	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
1,4-Dichlorobenzene	ND	6600	1200	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2,4,5-Trichlorophenol	ND	6600	1200	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2,4,6-Trichlorophenol	ND	6600	4500	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2,4-Dichlorophenol	ND	33000	2300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2,4-Dimethylphenol	ND	6600	2400	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2,4-Dinitrophenol	ND	33000	1700	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2,4-Dinitrotoluene	ND	6600	910	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2,6-Dinitrotoluene	ND	6600	980	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2-Chloronaphthalene	ND	6600	1200	20	B9E0909	05/28/2019	05/29/19 15:39	D1



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP13-0.5

Lab ID: 1902114-25

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorophenol	ND	6600	2400	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2-Methylnaphthalene	ND	6600	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2-Methylphenol	ND	6600	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2-Nitroaniline	ND	33000	4100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
2-Nitrophenol	ND	6600	2100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
3,3'-Dichlorobenzidine	ND	13000	5600	20	B9E0909	05/28/2019	05/29/19 15:39	D1
3-Nitroaniline	ND	33000	890	20	B9E0909	05/28/2019	05/29/19 15:39	D1
4,6-Dinitro-2-methylphenol	ND	33000	6000	20	B9E0909	05/28/2019	05/29/19 15:39	D1
4-Bromophenyl-phenylether	ND	6600	990	20	B9E0909	05/28/2019	05/29/19 15:39	D1
4-Chloro-3-methylphenol	ND	13000	2100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
4-Chloroaniline	ND	13000	1100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
4-Chlorophenyl-phenylether	ND	6600	950	20	B9E0909	05/28/2019	05/29/19 15:39	D1
4-Methylphenol	ND	6600	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
4-Nitroaniline	ND	33000	5800	20	B9E0909	05/28/2019	05/29/19 15:39	D1
4-Nitrophenol	ND	6600	3000	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Acenaphthene	ND	6600	970	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Acenaphthylene	ND	6600	1000	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Anthracene	ND	6600	970	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Benzidine (M)	ND	33000	29000	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Benzo(a)anthracene	ND	6600	780	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Benzo(a)pyrene	ND	6600	910	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Benzo(b)fluoranthene	ND	6600	1100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Benzo(g,h,i)perylene	ND	6600	750	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Benzo(k)fluoranthene	ND	6600	1000	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Benzoic acid	ND	33000	18000	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Benzyl alcohol	ND	13000	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
bis(2-chloroethoxy)methane	ND	6600	1200	20	B9E0909	05/28/2019	05/29/19 15:39	D1
bis(2-Chloroethyl)ether	ND	6600	1100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
bis(2-chloroisopropyl)ether	ND	6600	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
bis(2-ethylhexyl)phthalate	ND	6600	1700	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Butylbenzylphthalate	ND	6600	4900	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Chrysene	ND	6600	860	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Di-n-butylphthalate	ND	6600	4500	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Di-n-octylphthalate	ND	6600	960	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Dibenz(a,h)anthracene	ND	6600	870	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Dibenzofuran	ND	6600	1100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Diethyl phthalate	ND	6600	950	20	B9E0909	05/28/2019	05/29/19 15:39	D1



Certificate of Analysis

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Client Sample ID WP13-0.5

Lab ID: 1902114-25

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dimethyl phthalate	ND	6600	920	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Fluoranthene	ND	6600	950	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Fluorene	ND	6600	980	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Hexachlorobenzene	ND	6600	820	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Hexachlorobutadiene	ND	13000	1200	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Hexachlorocyclopentadiene	ND	13000	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Hexachloroethane	ND	6600	1400	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Indeno(1,2,3-cd)pyrene	ND	6600	870	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Isophorone	ND	6600	1100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
N-Nitroso-di-n propylamine	ND	6600	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
N-Nitrosodiphenylamine	ND	6600	960	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Naphthalene	ND	6600	1200	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Nitrobenzene	ND	6600	1300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Pentachlorophenol	ND	33000	3700	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Phenanthrene	ND	6600	920	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Phenol	ND	6600	2600	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Pyrene	ND	6600	1100	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Pyridine	ND	33000	5300	20	B9E0909	05/28/2019	05/29/19 15:39	D1
Surrogate: 1,2-Dichlorobenzene-d4	0%		16 - 87		B9E0909	05/28/2019	05/29/19 15:39	S4
Surrogate: 2,4,6-Tribromophenol	0%		0 - 148		B9E0909	05/28/2019	05/29/19 15:39	S4
Surrogate: 2-Chlorophenol-d4	0%		17 - 96		B9E0909	05/28/2019	05/29/19 15:39	S4
Surrogate: 2-Fluorobiphenyl	0%		16 - 107		B9E0909	05/28/2019	05/29/19 15:39	S4
Surrogate: 2-Fluorophenol	0%		16 - 86		B9E0909	05/28/2019	05/29/19 15:39	S4
Surrogate: 4-Terphenyl-d14	0%		3 - 156		B9E0909	05/28/2019	05/29/19 15:39	S4
Surrogate: Nitrobenzene-d5	0%		16 - 99		B9E0909	05/28/2019	05/29/19 15:39	S4
Surrogate: Phenol-d6	0%		17 - 90		B9E0909	05/28/2019	05/29/19 15:39	S4



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Client Sample ID WP14-0.5

Lab ID: 1902114-27

Title 22 Metals by ICP-AES EPA 6010B

Analyst: KEK

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	0.51	1	B9E0958	05/30/2019	05/30/19 16:58	
Arsenic	4.1	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:58	
Barium	86	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:58	
Beryllium	ND	1.0	0.03	1	B9E0958	05/30/2019	05/30/19 16:58	
Cadmium	0.94	1.0	0.14	1	B9E0958	05/30/2019	05/30/19 16:58	J
Chromium	13	1.0	0.26	1	B9E0958	05/30/2019	05/30/19 16:58	
Cobalt	6.5	1.0	0.07	1	B9E0958	05/30/2019	05/30/19 16:58	
Copper	22	2.0	0.19	1	B9E0958	05/30/2019	05/30/19 16:58	
Lead	27	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:58	
Molybdenum	0.41	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:58	J
Nickel	16	1.0	0.18	1	B9E0958	05/30/2019	05/30/19 16:58	
Selenium	ND	1.0	0.40	1	B9E0958	05/30/2019	05/30/19 16:58	
Silver	ND	1.0	0.12	1	B9E0958	05/30/2019	05/30/19 16:58	
Thallium	ND	1.0	0.38	1	B9E0958	05/30/2019	05/30/19 16:58	
Vanadium	24	1.0	0.06	1	B9E0958	05/30/2019	05/30/19 16:58	
Zinc	100	1.0	0.15	1	B9E0958	05/30/2019	05/30/19 16:58	

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	0.007	1	B9E0959	05/30/2019	05/30/19 14:19	J

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	38	2.0	2.0	2	B9E0938	05/29/2019	05/30/19 00:08	
ORO	110	2.0	2.0	2	B9E0938	05/29/2019	05/30/19 00:08	
Surrogate: p-Terphenyl	100 %		34 - 158		B9E0938	05/29/2019	05/30/19 00:08	



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Client Sample ID WP14-0.5

Lab ID: 1902114-27

Organochlorine Pesticides by EPA 8081

Analyst: KD

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	0.58	2.0	0.07	1	B9E0937	05/28/2019	05/30/19 06:35	J
4,4'-DDE [2C]	2.3	2.0	0.11	1	B9E0937	05/28/2019	05/30/19 06:35	
4,4'-DDT	ND	2.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:35	
Aldrin	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:35	
alpha-BHC	ND	1.0	0.11	1	B9E0937	05/28/2019	05/30/19 06:35	
alpha-Chlordane	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:35	
beta-BHC	ND	1.0	0.06	1	B9E0937	05/28/2019	05/30/19 06:35	
Chlordane	ND	8.5	1.1	1	B9E0937	05/28/2019	05/30/19 06:35	
delta-BHC	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:35	
Dieldrin	ND	2.0	0.26	1	B9E0937	05/28/2019	05/30/19 06:35	
Endosulfan I	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:35	
Endosulfan II	ND	2.0	0.15	1	B9E0937	05/28/2019	05/30/19 06:35	
Endosulfan sulfate	ND	2.0	0.16	1	B9E0937	05/28/2019	05/30/19 06:35	
Endrin	ND	2.0	0.14	1	B9E0937	05/28/2019	05/30/19 06:35	
Endrin aldehyde	ND	2.0	0.31	1	B9E0937	05/28/2019	05/30/19 06:35	
Endrin ketone	ND	2.0	0.13	1	B9E0937	05/28/2019	05/30/19 06:35	
gamma-BHC	ND	1.0	0.10	1	B9E0937	05/28/2019	05/30/19 06:35	
gamma-Chlordane	ND	1.0	0.89	1	B9E0937	05/28/2019	05/30/19 06:35	
Heptachlor	ND	1.0	0.12	1	B9E0937	05/28/2019	05/30/19 06:35	
Heptachlor epoxide	ND	1.0	0.09	1	B9E0937	05/28/2019	05/30/19 06:35	
Methoxychlor	ND	5.0	0.18	1	B9E0937	05/28/2019	05/30/19 06:35	
Toxaphene	ND	50	4.7	1	B9E0937	05/28/2019	05/30/19 06:35	
Surrogate: Decachlorobiphenyl	58.2 %		32 - 91		B9E0937	05/28/2019	05/30/19 06:35	
Surrogate: Tetrachloro-m-xylene	88.0 %		38 - 93		B9E0937	05/28/2019	05/30/19 06:35	



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Client Sample ID WP14-0.5

Lab ID: 1902114-27

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	0.96	1	B9E0861	05/28/2019	05/28/19 16:51	
1,1,1-Trichloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:51	
1,1,2,2-Tetrachloroethane	ND	5.0	0.62	1	B9E0861	05/28/2019	05/28/19 16:51	
1,1,2-Trichloroethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:51	
1,1-Dichloroethane	ND	5.0	0.81	1	B9E0861	05/28/2019	05/28/19 16:51	
1,1-Dichloroethene	ND	5.0	2.6	1	B9E0861	05/28/2019	05/28/19 16:51	
1,1-Dichloropropene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2,3-Trichloropropane	ND	5.0	0.54	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2,3-Trichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2,4-Trichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2,4-Trimethylbenzene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2-Dibromo-3-chloropropane	ND	10	1.6	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2-Dibromoethane	ND	5.0	3.2	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2-Dichlorobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2-Dichloroethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:51	
1,2-Dichloropropane	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 16:51	
1,3,5-Trimethylbenzene	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 16:51	
1,3-Dichlorobenzene	ND	5.0	1.3	1	B9E0861	05/28/2019	05/28/19 16:51	
1,3-Dichloropropane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:51	
1,4-Dichlorobenzene	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:51	
2,2-Dichloropropane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:51	
2-Chlorotoluene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:51	
4-Chlorotoluene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:51	
4-Isopropyltoluene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:51	
Benzene	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 16:51	
Bromobenzene	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:51	
Bromochloromethane	ND	5.0	0.64	1	B9E0861	05/28/2019	05/28/19 16:51	
Bromodichloromethane	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:51	
Bromoform	ND	5.0	0.80	1	B9E0861	05/28/2019	05/28/19 16:51	
Bromomethane	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 16:51	
Carbon disulfide	ND	5.0	3.5	1	B9E0861	05/28/2019	05/28/19 16:51	
Carbon tetrachloride	ND	5.0	1.2	1	B9E0861	05/28/2019	05/28/19 16:51	
Chlorobenzene	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 16:51	
Chloroethane	ND	5.0	1.1	1	B9E0861	05/28/2019	05/28/19 16:51	
Chloroform	ND	5.0	0.82	1	B9E0861	05/28/2019	05/28/19 16:51	
Chloromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 16:51	
cis-1,2-Dichloroethene	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 16:51	



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Client Sample ID WP14-0.5

Lab ID: 1902114-27

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
cis-1,3-Dichloropropene	ND	5.0	1.9	1	B9E0861	05/28/2019	05/28/19 16:51	
Di-isopropyl ether	ND	5.0	0.55	1	B9E0861	05/28/2019	05/28/19 16:51	
Dibromochloromethane	ND	5.0	1.0	1	B9E0861	05/28/2019	05/28/19 16:51	
Dibromomethane	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:51	
Dichlorodifluoromethane	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 16:51	
Ethyl Acetate	ND	50	8.1	1	B9E0861	05/28/2019	05/28/19 16:51	
Ethyl Ether	ND	50	6.1	1	B9E0861	05/28/2019	05/28/19 16:51	
Ethyl tert-butyl ether	ND	5.0	0.67	1	B9E0861	05/28/2019	05/28/19 16:51	
Ethylbenzene	ND	5.0	0.91	1	B9E0861	05/28/2019	05/28/19 16:51	
Freon-113	ND	5.0	2.8	1	B9E0861	05/28/2019	05/28/19 16:51	
Hexachlorobutadiene	ND	5.0	2.5	1	B9E0861	05/28/2019	05/28/19 16:51	
Isopropylbenzene	ND	5.0	1.8	1	B9E0861	05/28/2019	05/28/19 16:51	
m,p-Xylene	ND	10	1.5	1	B9E0861	05/28/2019	05/28/19 16:51	
Methylene chloride	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:51	
MTBE	ND	5.0	0.63	1	B9E0861	05/28/2019	05/28/19 16:51	
n-Butylbenzene	ND	5.0	2.4	1	B9E0861	05/28/2019	05/28/19 16:51	
n-Propylbenzene	ND	5.0	2.2	1	B9E0861	05/28/2019	05/28/19 16:51	
Naphthalene	ND	5.0	0.97	1	B9E0861	05/28/2019	05/28/19 16:51	
o-Xylene	ND	5.0	0.87	1	B9E0861	05/28/2019	05/28/19 16:51	
sec-Butylbenzene	ND	5.0	2.3	1	B9E0861	05/28/2019	05/28/19 16:51	
Styrene	ND	5.0	1.5	1	B9E0861	05/28/2019	05/28/19 16:51	
tert-Amyl methyl ether	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 16:51	
tert-Butanol	ND	100	19	1	B9E0861	05/28/2019	05/28/19 16:51	
tert-Butylbenzene	ND	5.0	2.0	1	B9E0861	05/28/2019	05/28/19 16:51	
Tetrachloroethene	ND	5.0	1.6	1	B9E0861	05/28/2019	05/28/19 16:51	
Toluene	ND	5.0	0.94	1	B9E0861	05/28/2019	05/28/19 16:51	
trans-1,2-Dichloroethene	ND	5.0	0.59	1	B9E0861	05/28/2019	05/28/19 16:51	
trans-1,3-Dichloropropene	ND	5.0	2.1	1	B9E0861	05/28/2019	05/28/19 16:51	
Trichloroethene	ND	5.0	3.1	1	B9E0861	05/28/2019	05/28/19 16:51	
Trichlorofluoromethane	ND	5.0	1.4	1	B9E0861	05/28/2019	05/28/19 16:51	
Vinyl acetate	ND	50	9.8	1	B9E0861	05/28/2019	05/28/19 16:51	
Vinyl chloride	ND	5.0	1.7	1	B9E0861	05/28/2019	05/28/19 16:51	
Gasoline Range Organics	ND	1000	230	1	B9E0861	05/28/2019	05/28/19 16:51	
Surrogate: 1,2-Dichloroethane-d4	107 %		60 - 145		B9E0861	05/28/2019	05/28/19 16:51	
Surrogate: 1,2-Dichloroethane-d4	124 %		60 - 145		B9E0861	05/28/2019	05/28/19 16:51	
Surrogate: 4-Bromofluorobenzene	98.3 %		68 - 121		B9E0861	05/28/2019	05/28/19 16:51	
Surrogate: 4-Bromofluorobenzene	94.6 %		68 - 121		B9E0861	05/28/2019	05/28/19 16:51	



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP14-0.5

Lab ID: 1902114-27

Volatile Organic Compounds by EPA 8260B

Analyst: VW

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Surrogate: Dibromofluoromethane	109 %	65 - 137		B9E0861	05/28/2019	05/28/19 16:51	
Surrogate: Dibromofluoromethane	93.5 %	65 - 137		B9E0861	05/28/2019	05/28/19 16:51	
Surrogate: Toluene-d8	92.9 %	82 - 119		B9E0861	05/28/2019	05/28/19 16:51	
Surrogate: Toluene-d8	92.8 %	82 - 119		B9E0861	05/28/2019	05/28/19 16:51	

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	660	140	2	B9E0909	05/28/2019	05/29/19 21:20	D1
1,2-Dichlorobenzene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 21:20	D1
1,3-Dichlorobenzene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
1,4-Dichlorobenzene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2,4,5-Trichlorophenol	ND	660	120	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2,4,6-Trichlorophenol	ND	660	450	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2,4-Dichlorophenol	ND	3300	230	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2,4-Dimethylphenol	ND	660	240	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2,4-Dinitrophenol	ND	3300	170	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2,4-Dinitrotoluene	ND	660	91	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2,6-Dinitrotoluene	ND	660	98	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2-Chloronaphthalene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2-Chlorophenol	ND	660	240	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2-Methylnaphthalene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2-Methylphenol	ND	660	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2-Nitroaniline	ND	3300	410	2	B9E0909	05/28/2019	05/29/19 21:20	D1
2-Nitrophenol	ND	660	210	2	B9E0909	05/28/2019	05/29/19 21:20	D1
3,3'-Dichlorobenzidine	ND	1300	560	2	B9E0909	05/28/2019	05/29/19 21:20	D1
3-Nitroaniline	ND	3300	89	2	B9E0909	05/28/2019	05/29/19 21:20	D1
4,6-Dinitro-2-methylphenol	ND	3300	600	2	B9E0909	05/28/2019	05/29/19 21:20	D1
4-Bromophenyl-phenylether	ND	660	99	2	B9E0909	05/28/2019	05/29/19 21:20	D1
4-Chloro-3-methylphenol	ND	1300	210	2	B9E0909	05/28/2019	05/29/19 21:20	D1
4-Chloroaniline	ND	1300	110	2	B9E0909	05/28/2019	05/29/19 21:20	D1
4-Chlorophenyl-phenylether	ND	660	95	2	B9E0909	05/28/2019	05/29/19 21:20	D1
4-Methylphenol	ND	660	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
4-Nitroaniline	ND	3300	580	2	B9E0909	05/28/2019	05/29/19 21:20	D1
4-Nitrophenol	ND	660	300	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Acenaphthene	ND	660	97	2	B9E0909	05/28/2019	05/29/19 21:20	D1



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Report To : Ross Currency
Reported : 05/30/2019

Client Sample ID WP14-0.5

Lab ID: 1902114-27

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Acenaphthylene	ND	660	100	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Anthracene	ND	660	97	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Benzidine (M)	ND	3300	2900	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Benzo(a)anthracene	ND	660	78	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Benzo(a)pyrene	ND	660	91	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Benzo(b)fluoranthene	ND	660	110	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Benzo(g,h,i)perylene	ND	660	75	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Benzo(k)fluoranthene	ND	660	100	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Benzoic acid	ND	3300	1800	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Benzyl alcohol	ND	1300	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
bis(2-chloroethoxy)methane	ND	660	120	2	B9E0909	05/28/2019	05/29/19 21:20	D1
bis(2-Chloroethyl)ether	ND	660	110	2	B9E0909	05/28/2019	05/29/19 21:20	D1
bis(2-chloroisopropyl)ether	ND	660	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
bis(2-ethylhexyl)phthalate	ND	660	170	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Butylbenzylphthalate	ND	660	490	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Chrysene	ND	660	86	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Di-n-butylphthalate	ND	660	450	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Di-n-octylphthalate	ND	660	96	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Dibenz(a,h)anthracene	ND	660	87	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Dibenzofuran	ND	660	110	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Diethyl phthalate	ND	660	95	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Dimethyl phthalate	ND	660	92	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Fluoranthene	ND	660	95	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Fluorene	ND	660	98	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Hexachlorobenzene	ND	660	82	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Hexachlorobutadiene	ND	1300	120	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Hexachlorocyclopentadiene	ND	1300	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Hexachloroethane	ND	660	140	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Indeno(1,2,3-cd)pyrene	ND	660	87	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Isophorone	ND	660	110	2	B9E0909	05/28/2019	05/29/19 21:20	D1
N-Nitroso-di-n propylamine	ND	660	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
N-Nitrosodiphenylamine	ND	660	96	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Naphthalene	ND	660	120	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Nitrobenzene	ND	660	130	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Pentachlorophenol	ND	3300	370	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Phenanthrene	ND	660	92	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Phenol	ND	660	260	2	B9E0909	05/28/2019	05/29/19 21:20	D1



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Client Sample ID WP14-0.5

Lab ID: 1902114-27

Semivolatile Organic Compounds by EPA 8270C

Analyst: PT

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Pyrene	ND	660	110	2	B9E0909	05/28/2019	05/29/19 21:20	D1
Pyridine	ND	3300	530	2	B9E0909	05/28/2019	05/29/19 21:20	D1
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>60.7 %</i>		<i>16 - 87</i>		B9E0909	05/28/2019	<i>05/29/19 21:20</i>	
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>98.0 %</i>		<i>0 - 148</i>		B9E0909	05/28/2019	<i>05/29/19 21:20</i>	
<i>Surrogate: 2-Chlorophenol-d4</i>	<i>58.6 %</i>		<i>17 - 96</i>		B9E0909	05/28/2019	<i>05/29/19 21:20</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>70.5 %</i>		<i>16 - 107</i>		B9E0909	05/28/2019	<i>05/29/19 21:20</i>	
<i>Surrogate: 2-Fluorophenol</i>	<i>51.8 %</i>		<i>16 - 86</i>		B9E0909	05/28/2019	<i>05/29/19 21:20</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>70.5 %</i>		<i>3 - 156</i>		B9E0909	05/28/2019	<i>05/29/19 21:20</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>59.5 %</i>		<i>16 - 99</i>		B9E0909	05/28/2019	<i>05/29/19 21:20</i>	
<i>Surrogate: Phenol-d6</i>	<i>57.7 %</i>		<i>17 - 90</i>		B9E0909	05/28/2019	<i>05/29/19 21:20</i>	



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QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - 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 B9E0958 - EPA 3050B_S

Blank (B9E0958-BLK1)

Prepared: 5/30/2019 Analyzed: 5/30/2019

Antimony	ND	2.0	0.51
Arsenic	ND	1.0	0.12
Barium	ND	1.0	0.12
Beryllium	ND	1.0	0.03
Cadmium	ND	1.0	0.14
Chromium	ND	1.0	0.26
Cobalt	ND	1.0	0.07
Copper	ND	2.0	0.19
Lead	ND	1.0	0.18
Molybdenum	ND	1.0	0.12
Nickel	ND	1.0	0.18
Selenium	ND	1.0	0.40
Silver	ND	1.0	0.12
Thallium	ND	1.0	0.38
Vanadium	ND	1.0	0.06
Zinc	ND	1.0	0.15

LCS (B9E0958-BS1)

Prepared: 5/30/2019 Analyzed: 5/30/2019

Antimony	48.4544	2.0	0.51	50.0000	96.9	80 - 120
Arsenic	45.8076	1.0	0.12	50.0000	91.6	80 - 120
Barium	47.3489	1.0	0.12	50.0000	94.7	80 - 120
Beryllium	45.2932	1.0	0.03	50.0000	90.6	80 - 120
Cadmium	45.7972	1.0	0.14	50.0000	91.6	80 - 120
Chromium	48.1032	1.0	0.26	50.0000	96.2	80 - 120
Cobalt	47.1826	1.0	0.07	50.0000	94.4	80 - 120
Copper	48.8528	2.0	0.19	50.0000	97.7	80 - 120
Lead	46.9939	1.0	0.18	50.0000	94.0	80 - 120
Molybdenum	47.0838	1.0	0.12	50.0000	94.2	80 - 120
Nickel	47.0782	1.0	0.18	50.0000	94.2	80 - 120
Selenium	43.7074	1.0	0.40	50.0000	87.4	80 - 120
Silver	46.2573	1.0	0.12	50.0000	92.5	80 - 120
Thallium	47.6674	1.0	0.38	50.0000	95.3	80 - 120
Vanadium	48.4128	1.0	0.06	50.0000	96.8	80 - 120
Zinc	45.2071	1.0	0.15	50.0000	90.4	80 - 120

Duplicate (B9E0958-DUP1)

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Antimony	ND	2.0	0.51	0.625021	NR	20	
Arsenic	21.0141	1.0	0.12	25.4745	19.2	20	
Barium	68.0696	1.0	0.12	95.3437	33.4	20	R
Beryllium	ND	1.0	0.03	ND	NR	20	



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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

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 B9E0958 - EPA 3050B_S (continued)

Duplicate (B9E0958-DUP1) - Continued

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Cadmium	0.304816	1.0	0.14		0.476301			43.9	20	R, J
Chromium	9.26710	1.0	0.26		13.1032			34.3	20	R
Cobalt	5.06533	1.0	0.07		7.39623			37.4	20	R
Copper	15.3486	2.0	0.19		23.2191			40.8	20	R
Lead	24.5209	1.0	0.18		39.8834			47.7	20	R
Molybdenum	ND	1.0	0.12		ND			NR	20	
Nickel	9.00589	1.0	0.18		10.3476			13.9	20	
Selenium	ND	1.0	0.40		ND			NR	20	
Silver	ND	1.0	0.12		ND			NR	20	
Thallium	ND	1.0	0.38		ND			NR	20	
Vanadium	22.5720	1.0	0.06		25.7473			13.1	20	
Zinc	73.5150	1.0	0.15		115.566			44.5	20	R

Matrix Spike (B9E0958-MS1)

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Antimony	62.6444	2.0	0.51	125.000	0.625021	49.6	21 - 102			
Arsenic	106.110	1.0	0.12	125.000	25.4745	64.5	49 - 96			
Barium	180.760	1.0	0.12	125.000	95.3437	68.3	26 - 121			
Beryllium	91.8454	1.0	0.03	125.000	ND	73.5	51 - 96			
Cadmium	82.4629	1.0	0.14	125.000	0.476301	65.6	46 - 93			
Chromium	101.778	1.0	0.26	125.000	13.1032	70.9	44 - 107			
Cobalt	92.2108	1.0	0.07	125.000	7.39623	67.9	49 - 100			
Copper	121.097	2.0	0.19	125.000	23.2191	78.3	46 - 115			
Lead	124.299	1.0	0.18	125.000	39.8834	67.5	29 - 126			
Molybdenum	90.7402	1.0	0.12	125.000	ND	72.6	48 - 99			
Nickel	95.7572	1.0	0.18	125.000	10.3476	68.3	37 - 108			
Selenium	87.0752	1.0	0.40	125.000	ND	69.7	48 - 95			
Silver	93.6330	1.0	0.12	125.000	ND	74.9	53 - 99			
Thallium	76.7288	1.0	0.38	125.000	ND	61.4	38 - 93			
Vanadium	115.595	1.0	0.06	125.000	25.7473	71.9	48 - 104			
Zinc	182.499	1.0	0.15	125.000	115.566	53.5	24 - 111			

Matrix Spike Dup (B9E0958-MSD1)

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Antimony	62.8891	2.0	0.51	125.000	0.625021	49.8	21 - 102	0.390	20	
Arsenic	113.454	1.0	0.12	125.000	25.4745	70.4	49 - 96	6.69	20	
Barium	186.849	1.0	0.12	125.000	95.3437	73.2	26 - 121	3.31	20	
Beryllium	92.6236	1.0	0.03	125.000	ND	74.1	51 - 96	0.844	20	
Cadmium	83.0550	1.0	0.14	125.000	0.476301	66.1	46 - 93	0.715	20	
Chromium	104.353	1.0	0.26	125.000	13.1032	73.0	44 - 107	2.50	20	
Cobalt	93.8599	1.0	0.07	125.000	7.39623	69.2	49 - 100	1.77	20	
Copper	127.282	2.0	0.19	125.000	23.2191	83.3	46 - 115	4.98	20	
Lead	128.674	1.0	0.18	125.000	39.8834	71.0	29 - 126	3.46	20	
Molybdenum	91.1092	1.0	0.12	125.000	ND	72.9	48 - 99	0.406	20	



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Reported : 05/30/2019

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

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 B9E0958 - EPA 3050B_S (continued)

Matrix Spike Dup (B9E0958-MSD1) - Continued

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Nickel	97.2647	1.0	0.18	125.000	10.3476	69.5	37 - 108	1.56	20	
Selenium	86.8130	1.0	0.40	125.000	ND	69.5	48 - 95	0.302	20	
Silver	94.4394	1.0	0.12	125.000	ND	75.6	53 - 99	0.857	20	
Thallium	75.0862	1.0	0.38	125.000	ND	60.1	38 - 93	2.16	20	
Vanadium	118.712	1.0	0.06	125.000	25.7473	74.4	48 - 104	2.66	20	
Zinc	215.383	1.0	0.15	125.000	115.566	79.9	24 - 111	16.5	20	



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Project Number : LAUSD - Jordan High School, 11640.011
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Reported : 05/30/2019

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 Limits	RPD	RPD Limit	Notes
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Batch B9E0959 - EPA 7471_S

Blank (B9E0959-BLK1)

Prepared: 5/30/2019 Analyzed: 5/30/2019

Mercury ND 0.10 0.007

LCS (B9E0959-BS1)

Prepared: 5/30/2019 Analyzed: 5/30/2019

Mercury 0.436633 0.10 0.007 0.416667 105 80 - 120

Duplicate (B9E0959-DUP1)

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Mercury 0.000759 0.001 0.00008 0.082393 196 20 R, J

Matrix Spike (B9E0959-MS1)

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Mercury 0.488860 0.10 0.007 0.416667 0.082393 97.6 70 - 130

Matrix Spike Dup (B9E0959-MSD1)

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Mercury 0.512680 0.10 0.007 0.416667 0.082393 103 70 - 130 4.76 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 Limits	RPD	RPD Limit	Notes
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Batch B9E0959 - EPA 7471_S

Post Spike (B9E0959-PS1)

Source: 1902114-01

Prepared: 5/30/2019 Analyzed: 5/30/2019

Mercury	0.003501		2.00000E-3	0.000989	126	85 - 115			M1
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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 Limits	RPD	RPD Limit	Notes
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Batch B9E0938 - GCSEMI_DRO_LL_S

Blank (B9E0938-BLK1)

Prepared: 5/29/2019 Analyzed: 5/30/2019

DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							

Surrogate: <i>p</i> -Terphenyl	3.967			2.66667		149	34 - 158			
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LCS (B9E0938-BS1)

Prepared: 5/29/2019 Analyzed: 5/29/2019

DRO	31.9927	1.0	1.0	33.3333		96.0	47 - 152			
Surrogate: <i>p</i> -Terphenyl	3.309			2.66667		124	34 - 158			

Duplicate (B9E0938-DUP1)

Source: 1902114-25

Prepared: 5/29/2019 Analyzed: 5/30/2019

DRO	43.5767	2.0	2.0		44.7520			2.66	20	
Surrogate: <i>p</i> -Terphenyl	2.437			2.66667		91.4	34 - 158			

Matrix Spike (B9E0938-MS1)

Source: 1902114-01

Prepared: 5/29/2019 Analyzed: 5/30/2019

DRO	736.717	50	50	33.3333	412.700	972	34 - 130			M2
Surrogate: <i>p</i> -Terphenyl	2.500			2.66667		93.7	34 - 158			

Matrix Spike Dup (B9E0938-MSD1)

Source: 1902114-01

Prepared: 5/29/2019 Analyzed: 5/30/2019

DRO	528.450	50	50	33.3333	412.700	347	34 - 130	32.9	20	M2, R2
Surrogate: <i>p</i> -Terphenyl	1.900			2.66667		71.2	34 - 158			



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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 Limit	Notes
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Batch B9E0937 - GCSEMI_PCB/PEST_S

Blank (B9E0937-BLK1)

Prepared: 5/28/2019 Analyzed: 5/30/2019

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
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 Limits	RPD	RPD Limit	Notes
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Batch B9E0937 - GCSEMI_PCB/PEST_S (continued)

Blank (B9E0937-BLK1) - Continued

Prepared: 5/28/2019 Analyzed: 5/30/2019

Methoxychlor [2C]	ND	5.0	0.18
Toxaphene	ND	50	4.7
Toxaphene [2C]	ND	50	4.7

Surrogate: Decachlorobiphenyl	14.36		16.6667	86.2	32 - 91
Surrogate: Decachlorobiphenyl [2	10.16		16.6667	61.0	32 - 91
Surrogate: Tetrachloro-m-xylene	14.36		16.6667	86.2	38 - 93
Surrogate: Tetrachloro-m-xylene [	12.52		16.6667	75.1	38 - 93

LCS (B9E0937-BS1)

Prepared: 5/28/2019 Analyzed: 5/30/2019

4,4'-DDD	11.1057	2.0	0.07	16.6667	66.6	66 - 112
4,4'-DDD [2C]	11.0567	2.0	0.07	16.6667	66.3	66 - 112
4,4'-DDE	10.5080	2.0	0.11	16.6667	63.0	62 - 112
4,4'-DDE [2C]	10.4602	2.0	0.11	16.6667	62.8	62 - 112
4,4'-DDT	12.3590	2.0	0.10	16.6667	74.2	48 - 90
4,4'-DDT [2C]	14.9120	2.0	0.10	16.6667	89.5	48 - 90
Aldrin	10.6735	1.0	0.12	16.6667	64.0	58 - 104
Aldrin [2C]	10.0925	1.0	0.12	16.6667	60.6	58 - 104
alpha-BHC	10.7963	1.0	0.11	16.6667	64.8	57 - 105
alpha-BHC [2C]	10.5582	1.0	0.11	16.6667	63.3	57 - 105
alpha-Chlordane	10.4167	1.0	0.12	16.6667	62.5	62 - 108
alpha-Chlordane [2C]	10.7933	1.0	0.12	16.6667	64.8	62 - 108
beta-BHC	9.94250	1.0	0.06	16.6667	59.7	59 - 106
beta-BHC [2C]	10.2057	1.0	0.06	16.6667	61.2	59 - 106
delta-BHC	11.3820	1.0	0.12	16.6667	68.3	63 - 115
delta-BHC [2C]	10.9762	1.0	0.12	16.6667	65.9	63 - 115
Dieldrin	10.5060	2.0	0.26	16.6667	63.0	59 - 102
Dieldrin [2C]	9.92600	2.0	0.26	16.6667	59.6	59 - 102
Endosulfan I	10.1708	1.0	0.10	16.6667	61.0	61 - 99
Endosulfan I [2C]	10.2893	1.0	0.10	16.6667	61.7	61 - 99
Endosulfan II	10.8340	2.0	0.15	16.6667	65.0	65 - 105
Endosulfan II [2C]	11.2548	2.0	0.15	16.6667	67.5	65 - 105
Endosulfan sulfate	10.1105	2.0	0.16	16.6667	60.7	59 - 107
Endosulfan Sulfate [2C]	9.90117	2.0	0.16	16.6667	59.4	59 - 107
Endrin	11.0427	2.0	0.14	16.6667	66.3	65 - 113
Endrin [2C]	10.9023	2.0	0.14	16.6667	65.4	65 - 113
Endrin aldehyde	10.2250	2.0	0.31	16.6667	61.3	61 - 109
Endrin aldehyde [2C]	10.2225	2.0	0.31	16.6667	61.3	61 - 109
Endrin ketone	9.76283	2.0	0.13	16.6667	58.6	56 - 97
Endrin ketone [2C]	9.56717	2.0	0.13	16.6667	57.4	56 - 97
gamma-BHC	10.1838	1.0	0.10	16.6667	61.1	57 - 101
gamma-BHC [2C]	10.7285	1.0	0.10	16.6667	64.4	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 Limits	RPD	RPD Limit	Notes
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Batch B9E0937 - GCSEMI_PCB/PEST_S (continued)

LCS (B9E0937-BS1) - Continued

Prepared: 5/28/2019 Analyzed: 5/30/2019

gamma-Chlordane	10.0808	1.0	0.89	16.6667		60.5	56 - 125		
gamma-Chlordane [2C]	9.40300	1.0	0.89	16.6667		56.4	56 - 125		
Heptachlor	11.0723	1.0	0.12	16.6667		66.4	61 - 105		
Heptachlor [2C]	10.6087	1.0	0.12	16.6667		63.7	61 - 105		
Heptachlor epoxide	9.84950	1.0	0.09	16.6667		59.1	59 - 97		
Heptachlor epoxide [2C]	10.4842	1.0	0.09	16.6667		62.9	59 - 97		
Methoxychlor	14.3402	5.0	0.18	16.6667		86.0	68 - 118		
Methoxychlor [2C]	15.0028	5.0	0.18	16.6667		90.0	68 - 118		

Surrogate: Decachlorobiphenyl	10.33			16.6667		62.0	32 - 91		
Surrogate: Decachlorobiphenyl [2	9.011			16.6667		54.1	32 - 91		
Surrogate: Tetrachloro-m-xylene	11.53			16.6667		69.2	38 - 93		
Surrogate: Tetrachloro-m-xylene [	10.57			16.6667		63.4	38 - 93		

Duplicate (B9E0937-DUP1)

Source: 1902114-15

Prepared: 5/28/2019 Analyzed: 5/30/2019

4,4'-DDD	ND	2.0	0.07		0.931500		NR	20	
4,4'-DDD [2C]	ND	2.0	0.07		1.14167		NR	20	
4,4'-DDE	4.58817	2.0	0.11		3.34300		31.4	20	R2
4,4'-DDE [2C]	3.47067	2.0	0.11		3.37233		2.87	20	
4,4'-DDT	5.13017	2.0	0.10		4.45550		14.1	20	
4,4'-DDT [2C]	5.48883	2.0	0.10		5.32850		2.96	20	
Aldrin	ND	1.0	0.12		ND			20	
Aldrin [2C]	ND	1.0	0.12		ND			20	
alpha-BHC	ND	1.0	0.11		ND			20	
alpha-BHC [2C]	ND	1.0	0.11		ND			20	
alpha-Chlordane	0.385667	1.0	0.12		0.344500		11.3	20	J
alpha-Chlordane [2C]	0.758667	1.0	0.12		0.861667		12.7	20	J
beta-BHC	ND	1.0	0.06		ND			20	
beta-BHC [2C]	ND	1.0	0.06		ND			20	
delta-BHC	ND	1.0	0.12		ND			20	
delta-BHC [2C]	ND	1.0	0.12		ND			20	
Dieldrin	ND	2.0	0.26		ND			20	
Dieldrin [2C]	ND	2.0	0.26		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	0.15		ND			20	
Endosulfan II [2C]	ND	2.0	0.15		ND			20	
Endosulfan sulfate	ND	2.0	0.16		ND			20	
Endosulfan Sulfate [2C]	ND	2.0	0.16		ND			20	
Endrin	ND	2.0	0.14		ND			20	
Endrin [2C]	ND	2.0	0.14		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 Limits	RPD	RPD Limit	Notes
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Batch B9E0937 - GCSEMI_PCB/PEST_S (continued)

Duplicate (B9E0937-DUP1) - Continued

Source: 1902114-15

Prepared: 5/28/2019 Analyzed: 5/30/2019

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	2.06433	1.0	0.89		0.946833		74.2	20	R2
gamma-Chlordane [2C]	ND	1.0	0.89		ND		NR	20	
Heptachlor	ND	1.0	0.12		ND			20	
Heptachlor [2C]	ND	1.0	0.12		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	13.04			16.6667		78.2	32 - 91		
Surrogate: Decachlorobiphenyl [2	12.05			16.6667		72.3	32 - 91		
Surrogate: Tetrachloro-m-xylene	14.59			16.6667		87.6	38 - 93		
Surrogate: Tetrachloro-m-xylene [	12.75			16.6667		76.5	38 - 93		

Matrix Spike (B9E0937-MS1)

Source: 1902114-23

Prepared: 5/28/2019 Analyzed: 5/30/2019

4,4'-DDD	11.9687	2.0	0.07	16.6667	ND	71.8	33 - 116		
4,4'-DDD [2C]	10.3302	2.0	0.07	16.6667	ND	62.0	33 - 116		
4,4'-DDE	12.5175	2.0	0.11	16.6667	0.415833	72.6	29 - 128		
4,4'-DDE [2C]	10.9352	2.0	0.11	16.6667	0.198500	64.4	29 - 128		
4,4'-DDT	15.1840	2.0	0.10	16.6667	ND	91.1	27 - 109		
4,4'-DDT [2C]	15.6035	2.0	0.10	16.6667	ND	93.6	27 - 109		
Aldrin	11.7555	1.0	0.12	16.6667	ND	70.5	34 - 110		
Aldrin [2C]	10.1372	1.0	0.12	16.6667	ND	60.8	34 - 110		
alpha-BHC	12.0347	1.0	0.11	16.6667	ND	72.2	39 - 107		
alpha-BHC [2C]	10.4428	1.0	0.11	16.6667	ND	62.7	39 - 107		
alpha-Chlordane	11.9328	1.0	0.12	16.6667	ND	71.6	37 - 111		
alpha-Chlordane [2C]	10.4792	1.0	0.12	16.6667	ND	62.9	37 - 111		
beta-BHC	12.2112	1.0	0.06	16.6667	ND	73.3	33 - 111		
beta-BHC [2C]	10.7460	1.0	0.06	16.6667	ND	64.5	33 - 111		
delta-BHC	12.6450	1.0	0.12	16.6667	ND	75.9	25 - 122		
delta-BHC [2C]	11.4487	1.0	0.12	16.6667	ND	68.7	25 - 122		
Dieldrin	12.6048	2.0	0.26	16.6667	ND	75.6	28 - 114		
Dieldrin [2C]	10.3073	2.0	0.26	16.6667	ND	61.8	28 - 114		
Endosulfan I	11.2910	1.0	0.10	16.6667	ND	67.7	35 - 107		
Endosulfan I [2C]	9.45767	1.0	0.10	16.6667	ND	56.7	35 - 107		
Endosulfan II	12.1298	2.0	0.15	16.6667	ND	72.8	13 - 122		
Endosulfan II [2C]	10.8097	2.0	0.15	16.6667	ND	64.9	13 - 122		



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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
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Batch B9E0937 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B9E0937-MS1) - Continued

Source: 1902114-23

Prepared: 5/28/2019 Analyzed: 5/30/2019

Endosulfan sulfate	12.5940	2.0	0.16	16.6667	ND	75.6	13 - 120		
Endosulfan Sulfate [2C]	10.0475	2.0	0.16	16.6667	ND	60.3	13 - 120		
Endrin	12.7273	2.0	0.14	16.6667	ND	76.4	31 - 121		
Endrin [2C]	11.6265	2.0	0.14	16.6667	ND	69.8	31 - 121		
Endrin aldehyde	12.1998	2.0	0.31	16.6667	ND	73.2	18 - 129		
Endrin aldehyde [2C]	11.1532	2.0	0.31	16.6667	ND	66.9	18 - 129		
Endrin ketone	12.0063	2.0	0.13	16.6667	ND	72.0	14 - 113		
Endrin ketone [2C]	10.5830	2.0	0.13	16.6667	ND	63.5	14 - 113		
gamma-BHC	12.1170	1.0	0.10	16.6667	ND	72.7	34 - 104		
gamma-BHC [2C]	10.9130	1.0	0.10	16.6667	ND	65.5	34 - 104		
gamma-Chlordane	11.6160	1.0	0.89	16.6667	ND	69.7	35 - 121		
gamma-Chlordane [2C]	10.3738	1.0	0.89	16.6667	ND	62.2	35 - 121		
Heptachlor	12.2353	1.0	0.12	16.6667	ND	73.4	35 - 110		
Heptachlor [2C]	10.8237	1.0	0.12	16.6667	ND	64.9	35 - 110		
Heptachlor epoxide	10.9157	1.0	0.09	16.6667	ND	65.5	31 - 106		
Heptachlor epoxide [2C]	10.0632	1.0	0.09	16.6667	ND	60.4	31 - 106		
Methoxychlor	17.7892	5.0	0.18	16.6667	ND	107	21 - 128		
Methoxychlor [2C]	15.3032	5.0	0.18	16.6667	ND	91.8	21 - 128		

Surrogate: Decachlorobiphenyl	9.206			16.6667		55.2	32 - 91		
Surrogate: Decachlorobiphenyl [2	8.588			16.6667		51.5	32 - 91		
Surrogate: Tetrachloro-m-xylene	12.10			16.6667		72.6	38 - 93		
Surrogate: Tetrachloro-m-xylene [	10.66			16.6667		64.0	38 - 93		

Matrix Spike (B9E0937-MS3)

Source: 1902080-88

Prepared: 5/28/2019 Analyzed: 5/30/2019

4,4'-DDD	10.4538	2.0	0.07	16.6667	ND	62.7	33 - 116		
4,4'-DDD [2C]	8.68033	2.0	0.07	16.6667	ND	52.1	33 - 116		
4,4'-DDE	10.6913	2.0	0.11	16.6667	ND	64.1	29 - 128		
4,4'-DDE [2C]	8.71133	2.0	0.11	16.6667	ND	52.3	29 - 128		
4,4'-DDT	14.8062	2.0	0.10	16.6667	ND	88.8	27 - 109		
4,4'-DDT [2C]	14.0822	2.0	0.10	16.6667	ND	84.5	27 - 109		
Aldrin	10.8960	1.0	0.12	16.6667	ND	65.4	34 - 110		
Aldrin [2C]	8.97183	1.0	0.12	16.6667	ND	53.8	34 - 110		
alpha-BHC	11.9480	1.0	0.11	16.6667	ND	71.7	39 - 107		
alpha-BHC [2C]	11.5593	1.0	0.11	16.6667	ND	69.4	39 - 107		
alpha-Chlordane	9.10750	1.0	0.12	16.6667	ND	54.6	37 - 111		
alpha-Chlordane [2C]	8.32783	1.0	0.12	16.6667	ND	50.0	37 - 111		
beta-BHC	18.7825	1.0	0.06	16.6667	ND	113	33 - 111		M2
beta-BHC [2C]	15.8857	1.0	0.06	16.6667	ND	95.3	33 - 111		
delta-BHC	10.4618	1.0	0.12	16.6667	ND	62.8	25 - 122		
delta-BHC [2C]	11.9732	1.0	0.12	16.6667	ND	71.8	25 - 122		
Dieldrin	11.2827	2.0	0.26	16.6667	ND	67.7	28 - 114		



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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0937 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike (B9E0937-MS3) - Continued

Source: 1902080-88

Prepared: 5/28/2019 Analyzed: 5/30/2019

Dieldrin [2C]	8.61183	2.0	0.26	16.6667	ND	51.7	28 - 114		
Endosulfan I	8.88733	1.0	0.10	16.6667	ND	53.3	35 - 107		
Endosulfan I [2C]	8.05917	1.0	0.10	16.6667	ND	48.4	35 - 107		
Endosulfan II	10.9727	2.0	0.15	16.6667	ND	65.8	13 - 122		
Endosulfan II [2C]	8.11333	2.0	0.15	16.6667	ND	48.7	13 - 122		
Endosulfan sulfate	10.5180	2.0	0.16	16.6667	ND	63.1	13 - 120		
Endosulfan Sulfate [2C]	9.08700	2.0	0.16	16.6667	ND	54.5	13 - 120		
Endrin	11.6863	2.0	0.14	16.6667	ND	70.1	31 - 121		
Endrin [2C]	9.73683	2.0	0.14	16.6667	ND	58.4	31 - 121		
Endrin aldehyde	11.4622	2.0	0.31	16.6667	ND	68.8	18 - 129		
Endrin aldehyde [2C]	8.95717	2.0	0.31	16.6667	ND	53.7	18 - 129		
Endrin ketone	11.3760	2.0	0.13	16.6667	ND	68.3	14 - 113		
Endrin ketone [2C]	10.6548	2.0	0.13	16.6667	ND	63.9	14 - 113		
gamma-BHC	15.4642	1.0	0.10	16.6667	ND	92.8	34 - 104		
gamma-BHC [2C]	11.2932	1.0	0.10	16.6667	ND	67.8	34 - 104		
gamma-Chlordane	32.7335	1.0	0.89	16.6667	ND	196	35 - 121		M2
gamma-Chlordane [2C]	7.56233	1.0	0.89	16.6667	ND	45.4	35 - 121		
Heptachlor	9.81683	1.0	0.12	16.6667	ND	58.9	35 - 110		
Heptachlor [2C]	9.93350	1.0	0.12	16.6667	ND	59.6	35 - 110		
Heptachlor epoxide	9.10217	1.0	0.09	16.6667	ND	54.6	31 - 106		
Heptachlor epoxide [2C]	8.53850	1.0	0.09	16.6667	ND	51.2	31 - 106		
Methoxychlor	21.5530	5.0	0.18	16.6667	ND	129	21 - 128		M2
Methoxychlor [2C]	13.4332	5.0	0.18	16.6667	ND	80.6	21 - 128		

Surrogate: Decachlorobiphenyl	9.782			16.6667		58.7	32 - 91		
Surrogate: Decachlorobiphenyl [2	7.860			16.6667		47.2	32 - 91		
Surrogate: Tetrachloro-m-xylene	13.88			16.6667		83.3	38 - 93		
Surrogate: Tetrachloro-m-xylene [	13.04			16.6667		78.2	38 - 93		

Matrix Spike Dup (B9E0937-MSD1)

Source: 1902114-23

Prepared: 5/28/2019 Analyzed: 5/30/2019

4,4'-DDD	13.8995	2.0	0.07	16.6667	ND	83.4	33 - 116	14.9	20
4,4'-DDD [2C]	11.5452	2.0	0.07	16.6667	ND	69.3	33 - 116	11.1	20
4,4'-DDE	14.5180	2.0	0.11	16.6667	0.415833	84.6	29 - 128	14.8	20
4,4'-DDE [2C]	12.1590	2.0	0.11	16.6667	0.198500	71.8	29 - 128	10.6	20
4,4'-DDT	17.3658	2.0	0.10	16.6667	ND	104	27 - 109	13.4	20
4,4'-DDT [2C]	17.2918	2.0	0.10	16.6667	ND	104	27 - 109	10.3	20
Aldrin	13.8137	1.0	0.12	16.6667	ND	82.9	34 - 110	16.1	20
Aldrin [2C]	11.3013	1.0	0.12	16.6667	ND	67.8	34 - 110	10.9	20
alpha-BHC	14.1377	1.0	0.11	16.6667	ND	84.8	39 - 107	16.1	20
alpha-BHC [2C]	11.7710	1.0	0.11	16.6667	ND	70.6	39 - 107	12.0	20
alpha-Chlordane	13.7410	1.0	0.12	16.6667	ND	82.4	37 - 111	14.1	20
alpha-Chlordane [2C]	11.5708	1.0	0.12	16.6667	ND	69.4	37 - 111	9.90	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 Limits	RPD	RPD Limit	Notes
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Batch B9E0937 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B9E0937-MSD1) - Continued

Source: 1902114-23

Prepared: 5/28/2019 Analyzed: 5/30/2019

beta-BHC	14.2090	1.0	0.06	16.6667	ND	85.3	33 - 111	15.1	20	
beta-BHC [2C]	12.0065	1.0	0.06	16.6667	ND	72.0	33 - 111	11.1	20	
delta-BHC	15.1435	1.0	0.12	16.6667	ND	90.9	25 - 122	18.0	20	
delta-BHC [2C]	12.8932	1.0	0.12	16.6667	ND	77.4	25 - 122	11.9	20	
Dieldrin	14.5688	2.0	0.26	16.6667	ND	87.4	28 - 114	14.5	20	
Dieldrin [2C]	11.4218	2.0	0.26	16.6667	ND	68.5	28 - 114	10.3	20	
Endosulfan I	13.0125	1.0	0.10	16.6667	ND	78.1	35 - 107	14.2	20	
Endosulfan I [2C]	10.4327	1.0	0.10	16.6667	ND	62.6	35 - 107	9.80	20	
Endosulfan II	14.1510	2.0	0.15	16.6667	ND	84.9	13 - 122	15.4	20	
Endosulfan II [2C]	11.9512	2.0	0.15	16.6667	ND	71.7	13 - 122	10.0	20	
Endosulfan sulfate	14.6328	2.0	0.16	16.6667	ND	87.8	13 - 120	15.0	20	
Endosulfan Sulfate [2C]	11.0722	2.0	0.16	16.6667	ND	66.4	13 - 120	9.70	20	
Endrin	14.7822	2.0	0.14	16.6667	ND	88.7	31 - 121	14.9	20	
Endrin [2C]	12.7900	2.0	0.14	16.6667	ND	76.7	31 - 121	9.53	20	
Endrin aldehyde	14.1552	2.0	0.31	16.6667	ND	84.9	18 - 129	14.8	20	
Endrin aldehyde [2C]	12.2115	2.0	0.31	16.6667	ND	73.3	18 - 129	9.06	20	
Endrin ketone	13.8450	2.0	0.13	16.6667	ND	83.1	14 - 113	14.2	20	
Endrin ketone [2C]	11.9505	2.0	0.13	16.6667	ND	71.7	14 - 113	12.1	20	
gamma-BHC	14.3370	1.0	0.10	16.6667	ND	86.0	34 - 104	16.8	20	
gamma-BHC [2C]	12.2105	1.0	0.10	16.6667	ND	73.3	34 - 104	11.2	20	
gamma-Chlordane	13.4127	1.0	0.89	16.6667	ND	80.5	35 - 121	14.4	20	
gamma-Chlordane [2C]	11.4597	1.0	0.89	16.6667	ND	68.8	35 - 121	9.95	20	
Heptachlor	14.1670	1.0	0.12	16.6667	ND	85.0	35 - 110	14.6	20	
Heptachlor [2C]	12.0477	1.0	0.12	16.6667	ND	72.3	35 - 110	10.7	20	
Heptachlor epoxide	12.4808	1.0	0.09	16.6667	ND	74.9	31 - 106	13.4	20	
Heptachlor epoxide [2C]	10.7553	1.0	0.09	16.6667	ND	64.5	31 - 106	6.65	20	
Methoxychlor	20.6380	5.0	0.18	16.6667	ND	124	21 - 128	14.8	20	
Methoxychlor [2C]	16.7343	5.0	0.18	16.6667	ND	100	21 - 128	8.93	20	

Surrogate: Decachlorobiphenyl	11.28			16.6667		67.7	32 - 91			
Surrogate: Decachlorobiphenyl [2	10.21			16.6667		61.2	32 - 91			
Surrogate: Tetrachloro-m-xylene	13.40			16.6667		80.4	38 - 93			
Surrogate: Tetrachloro-m-xylene [	11.58			16.6667		69.5	38 - 93			

Matrix Spike Dup (B9E0937-MSD3)

Source: 1902080-88

Prepared: 5/28/2019 Analyzed: 5/30/2019

4,4'-DDD	9.68050	2.0	0.07	16.6667	ND	58.1	33 - 116	7.68	20	
4,4'-DDD [2C]	8.25983	2.0	0.07	16.6667	ND	49.6	33 - 116	4.96	20	
4,4'-DDE	10.5798	2.0	0.11	16.6667	ND	63.5	29 - 128	1.05	20	
4,4'-DDE [2C]	8.39217	2.0	0.11	16.6667	ND	50.4	29 - 128	3.73	20	
4,4'-DDT	13.4532	2.0	0.10	16.6667	ND	80.7	27 - 109	9.58	20	
4,4'-DDT [2C]	13.6757	2.0	0.10	16.6667	ND	82.1	27 - 109	2.93	20	
Aldrin	10.7318	1.0	0.12	16.6667	ND	64.4	34 - 110	1.52	20	



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Reported : 05/30/2019

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	Notes
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Batch B9E0937 - GCSEMI_PCB/PEST_S (continued)

Matrix Spike Dup (B9E0937-MSD3) - Continued

Source: 1902080-88

Prepared: 5/28/2019 Analyzed: 5/30/2019

Aldrin [2C]	8.71083	1.0	0.12	16.6667	ND	52.3	34 - 110	2.95	20	
alpha-BHC	11.8877	1.0	0.11	16.6667	ND	71.3	39 - 107	0.506	20	
alpha-BHC [2C]	11.5575	1.0	0.11	16.6667	ND	69.3	39 - 107	0.0158	20	
alpha-Chlordane	9.04983	1.0	0.12	16.6667	ND	54.3	37 - 111	0.635	20	
alpha-Chlordane [2C]	8.03883	1.0	0.12	16.6667	ND	48.2	37 - 111	3.53	20	
beta-BHC	18.7673	1.0	0.06	16.6667	ND	113	33 - 111	0.0808	20	M2
beta-BHC [2C]	15.7527	1.0	0.06	16.6667	ND	94.5	33 - 111	0.841	20	
delta-BHC	10.8297	1.0	0.12	16.6667	ND	65.0	25 - 122	3.46	20	
delta-BHC [2C]	11.9295	1.0	0.12	16.6667	ND	71.6	25 - 122	0.365	20	
Dieldrin	11.3703	2.0	0.26	16.6667	ND	68.2	28 - 114	0.774	20	
Dieldrin [2C]	8.28233	2.0	0.26	16.6667	ND	49.7	28 - 114	3.90	20	
Endosulfan I	8.83133	1.0	0.10	16.6667	ND	53.0	35 - 107	0.632	20	
Endosulfan I [2C]	7.84633	1.0	0.10	16.6667	ND	47.1	35 - 107	2.68	20	
Endosulfan II	10.8258	2.0	0.15	16.6667	ND	65.0	13 - 122	1.35	20	
Endosulfan II [2C]	7.75883	2.0	0.15	16.6667	ND	46.6	13 - 122	4.47	20	
Endosulfan sulfate	9.86833	2.0	0.16	16.6667	ND	59.2	13 - 120	6.37	20	
Endosulfan Sulfate [2C]	8.58167	2.0	0.16	16.6667	ND	51.5	13 - 120	5.72	20	
Endrin	12.5240	2.0	0.14	16.6667	ND	75.1	31 - 121	6.92	20	
Endrin [2C]	9.30433	2.0	0.14	16.6667	ND	55.8	31 - 121	4.54	20	
Endrin aldehyde	11.6467	2.0	0.31	16.6667	ND	69.9	18 - 129	1.60	20	
Endrin aldehyde [2C]	8.19983	2.0	0.31	16.6667	ND	49.2	18 - 129	8.83	20	
Endrin ketone	11.0397	2.0	0.13	16.6667	ND	66.2	14 - 113	3.00	20	
Endrin ketone [2C]	10.2767	2.0	0.13	16.6667	ND	61.7	14 - 113	3.61	20	
gamma-BHC	15.5590	1.0	0.10	16.6667	ND	93.4	34 - 104	0.611	20	
gamma-BHC [2C]	11.1075	1.0	0.10	16.6667	ND	66.6	34 - 104	1.66	20	
gamma-Chlordane	37.6305	1.0	0.89	16.6667	ND	226	35 - 121	13.9	20	M2
gamma-Chlordane [2C]	7.32767	1.0	0.89	16.6667	ND	44.0	35 - 121	3.15	20	
Heptachlor	9.88400	1.0	0.12	16.6667	ND	59.3	35 - 110	0.682	20	
Heptachlor [2C]	9.80433	1.0	0.12	16.6667	ND	58.8	35 - 110	1.31	20	
Heptachlor epoxide	9.13783	1.0	0.09	16.6667	ND	54.8	31 - 106	0.391	20	
Heptachlor epoxide [2C]	8.06083	1.0	0.09	16.6667	ND	48.4	31 - 106	5.76	20	
Methoxychlor	22.0637	5.0	0.18	16.6667	ND	132	21 - 128	2.34	20	M2
Methoxychlor [2C]	12.7382	5.0	0.18	16.6667	ND	76.4	21 - 128	5.31	20	
Surrogate: Decachlorobiphenyl	10.42			16.6667		62.5	32 - 91			
Surrogate: Decachlorobiphenyl [2	7.818			16.6667		46.9	32 - 91			
Surrogate: Tetrachloro-m-xylene	14.07			16.6667		84.4	38 - 93			
Surrogate: Tetrachloro-m-xylene [12.79			16.6667		76.7	38 - 93			



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0937 - GCSEMI_PCB/PEST_S

Blank (B9E0937-BLK2)

Prepared: 5/28/2019 Analyzed: 5/29/2019

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	13.59		16.6667	81.6	38 - 117
Surrogate: Tetrachloro-m-xylene	13.08		16.6667	78.5	39 - 121

LCS (B9E0937-BS2)

Prepared: 5/28/2019 Analyzed: 5/29/2019

Aroclor 1016	135.970	16	4.6	166.667	81.6	59 - 96
Aroclor 1260	147.134	16	4.6	166.667	88.3	64 - 108
Surrogate: Decachlorobiphenyl	16.75			16.6667	100	38 - 117
Surrogate: Tetrachloro-m-xylene	15.22			16.6667	91.3	39 - 121

Duplicate (B9E0937-DUP2)

Source: 1902114-15

Prepared: 5/28/2019 Analyzed: 5/29/2019

Aroclor 1016	ND	16	4.6	ND	20
Aroclor 1260	ND	16	4.6	ND	20
Surrogate: Decachlorobiphenyl	13.84		16.6667	83.0	38 - 117
Surrogate: Tetrachloro-m-xylene	13.53		16.6667	81.2	39 - 121

Matrix Spike (B9E0937-MS2)

Source: 1902114-03

Prepared: 5/28/2019 Analyzed: 5/29/2019

Aroclor 1016	70.3520	16	4.6	166.667	ND	42.2	22 - 130
Aroclor 1260	74.1347	16	4.6	166.667	ND	44.5	39 - 121
Surrogate: Decachlorobiphenyl	7.740			16.6667		46.4	38 - 117
Surrogate: Tetrachloro-m-xylene	7.226			16.6667		43.4	39 - 121

Matrix Spike Dup (B9E0937-MSD2)

Source: 1902114-03

Prepared: 5/28/2019 Analyzed: 5/29/2019

Aroclor 1016	64.4900	16	4.6	166.667	ND	38.7	22 - 130	8.69	20
Aroclor 1260	71.9665	16	4.6	166.667	ND	43.2	39 - 121	2.97	20
Surrogate: Decachlorobiphenyl	7.338			16.6667		44.0	38 - 117		
Surrogate: Tetrachloro-m-xylene	6.732			16.6667		40.4	39 - 121		



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Project Number : LAUSD - Jordan High School, 11640.011
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Reported : 05/30/2019

Volatile Organic Compounds by EPA 8260B - Quality Control

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 B9E0861 - MSVOA_S

Blank (B9E0861-BLK1)

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,1,2-Tetrachloroethane	ND	5.0	0.96
1,1,1-Trichloroethane	ND	5.0	1.1
1,1,2,2-Tetrachloroethane	ND	5.0	0.62
1,1,2-Trichloroethane	ND	5.0	1.6
1,1-Dichloroethane	ND	5.0	0.81
1,1-Dichloroethene	ND	5.0	2.6
1,1-Dichloropropene	ND	5.0	2.3
1,2,3-Trichloropropane	ND	5.0	0.54
1,2,3-Trichlorobenzene	ND	5.0	1.2
1,2,4-Trichlorobenzene	ND	5.0	1.1
1,2,4-Trimethylbenzene	ND	5.0	1.5
1,2-Dibromo-3-chloropropane	ND	10	1.6
1,2-Dibromoethane	ND	5.0	3.2
1,2-Dichlorobenzene	ND	5.0	1.1
1,2-Dichloroethane	ND	5.0	1.2
1,2-Dichloropropane	ND	5.0	1.8
1,3,5-Trimethylbenzene	ND	5.0	1.7
1,3-Dichlorobenzene	ND	5.0	1.3
1,3-Dichloropropane	ND	5.0	1.1
1,4-Dichlorobenzene	ND	5.0	1.2
2,2-Dichloropropane	ND	5.0	1.2
2-Chlorotoluene	ND	5.0	1.6
4-Chlorotoluene	ND	5.0	1.5
4-Isopropyltoluene	ND	5.0	2.3
Benzene	ND	5.0	0.64
Bromobenzene	ND	5.0	1.1
Bromochloromethane	ND	5.0	0.64
Bromodichloromethane	ND	5.0	1.2
Bromoform	ND	5.0	0.80
Bromomethane	ND	5.0	2.5
Carbon disulfide	ND	5.0	3.5
Carbon tetrachloride	ND	5.0	1.2
Chlorobenzene	ND	5.0	1.0
Chloroethane	ND	5.0	1.1
Chloroform	ND	5.0	0.82
Chloromethane	ND	5.0	1.4
cis-1,2-Dichloroethene	ND	5.0	0.67
cis-1,3-Dichloropropene	ND	5.0	1.9
Di-isopropyl ether	ND	5.0	0.55
Dibromochloromethane	ND	5.0	1.0
Dibromomethane	ND	5.0	1.6



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17781 Cowan Street
Irvine, CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0861 - MSVOA_S (continued)

Blank (B9E0861-BLK1) - Continued

Prepared: 5/28/2019 Analyzed: 5/28/2019

Dichlorodifluoromethane	ND	5.0	2.2
Ethyl Acetate	ND	50	8.1
Ethyl Ether	ND	50	6.1
Ethyl tert-butyl ether	ND	5.0	0.67
Ethylbenzene	ND	5.0	0.91
Freon-113	ND	5.0	2.8
Hexachlorobutadiene	ND	5.0	2.5
Isopropylbenzene	ND	5.0	1.8
m,p-Xylene	ND	10	1.5
Methylene chloride	ND	5.0	2.3
MTBE	ND	5.0	0.63
n-Butylbenzene	ND	5.0	2.4
n-Propylbenzene	ND	5.0	2.2
Naphthalene	ND	5.0	0.97
o-Xylene	ND	5.0	0.87
sec-Butylbenzene	ND	5.0	2.3
Styrene	ND	5.0	1.5
tert-Amyl methyl ether	ND	5.0	0.59
tert-Butanol	ND	100	19
tert-Butylbenzene	ND	5.0	2.0
Tetrachloroethene	ND	5.0	1.6
Toluene	ND	5.0	0.94
trans-1,2-Dichloroethene	ND	5.0	0.59
trans-1,3-Dichloropropene	ND	5.0	2.1
Trichloroethene	ND	5.0	3.1
Trichlorofluoromethane	ND	5.0	1.4
Vinyl acetate	ND	50	9.8
Vinyl chloride	ND	5.0	1.7

Surrogate: 1,2-Dichloroethane-d4	42.05		50.0000	84.1	60 - 145
Surrogate: 4-Bromofluorobenzene	44.44		50.0000	88.9	68 - 121
Surrogate: Dibromofluoromethane	45.85		50.0000	91.7	65 - 137
Surrogate: Toluene-d8	46.29		50.0000	92.6	82 - 119

Blank (B9E0861-BLK2)

Prepared: 5/28/2019 Analyzed: 5/28/2019

Gasoline Range Organics	ND	1000	230
Surrogate: 1,2-Dichloroethane-d4	36.08		
Surrogate: 4-Bromofluorobenzene	46.01		
Surrogate: Dibromofluoromethane	39.27		
Surrogate: Toluene-d8	46.27		

LCS (B9E0861-BS1)

Prepared: 5/28/2019 Analyzed: 5/28/2019



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Irvine , CA 92614

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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0861 - MSVOA_S (continued)

LCS (B9E0861-BS1) - Continued

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,1,2-Tetrachloroethane	50.4800	5.0	0.96	50.0000		101	82 - 114		
1,1,1-Trichloroethane	47.8800	5.0	1.1	50.0000		95.8	70 - 121		
1,1,2,2-Tetrachloroethane	42.9000	5.0	0.62	50.0000		85.8	65 - 116		
1,1,2-Trichloroethane	42.9400	5.0	1.6	50.0000		85.9	73 - 114		
1,1-Dichloroethane	41.1800	5.0	0.81	50.0000		82.4	69 - 117		
1,1-Dichloroethene	52.3100	5.0	2.6	50.0000		105	57 - 128		
1,1-Dichloropropene	48.5900	5.0	2.3	50.0000		97.2	76 - 122		
1,2,3-Trichloropropane	45.9500	5.0	0.54	50.0000		91.9	65 - 116		
1,2,3-Trichlorobenzene	45.7600	5.0	1.2	50.0000		91.5	72 - 130		
1,2,4-Trichlorobenzene	49.1500	5.0	1.1	50.0000		98.3	74 - 141		
1,2,4-Trimethylbenzene	51.6100	5.0	1.5	50.0000		103	81 - 126		
1,2-Dibromo-3-chloropropane	53.8500	10	1.6	50.0000		108	63 - 126		
1,2-Dibromoethane	43.0500	5.0	3.2	50.0000		86.1	75 - 113		
1,2-Dichlorobenzene	46.3700	5.0	1.1	50.0000		92.7	83 - 114		
1,2-Dichloroethane	51.4800	5.0	1.2	50.0000		103	73 - 115		
1,2-Dichloropropane	41.2200	5.0	1.8	50.0000		82.4	75 - 117		
1,3,5-Trimethylbenzene	47.9300	5.0	1.7	50.0000		95.9	80 - 126		
1,3-Dichlorobenzene	46.6900	5.0	1.3	50.0000		93.4	83 - 113		
1,3-Dichloropropane	46.3800	5.0	1.1	50.0000		92.8	79 - 108		
1,4-Dichlorobenzene	46.5100	5.0	1.2	50.0000		93.0	82 - 114		
2,2-Dichloropropane	39.4100	5.0	1.2	50.0000		78.8	66 - 135		
2-Chlorotoluene	48.1700	5.0	1.6	50.0000		96.3	79 - 117		
4-Chlorotoluene	47.9900	5.0	1.5	50.0000		96.0	77 - 118		
4-Isopropyltoluene	54.4100	5.0	2.3	50.0000		109	81 - 129		
Benzene	96.5100	5.0	0.64	100.000		96.5	78 - 112		
Bromobenzene	44.3100	5.0	1.1	50.0000		88.6	79 - 111		
Bromochloromethane	37.6300	5.0	0.64	50.0000		75.3	69 - 116		
Bromodichloromethane	48.3200	5.0	1.2	50.0000		96.6	79 - 111		
Bromoform	48.8200	5.0	0.80	50.0000		97.6	75 - 119		
Bromomethane	45.9100	5.0	2.5	50.0000		91.8	31 - 168		
Carbon disulfide	47.3600	5.0	3.5	50.0000		94.7	54 - 141		
Carbon tetrachloride	59.2000	5.0	1.2	50.0000		118	74 - 125		
Chlorobenzene	46.9600	5.0	1.0	50.0000		93.9	83 - 112		
Chloroethane	50.4000	5.0	1.1	50.0000		101	53 - 144		
Chloroform	43.4800	5.0	0.82	50.0000		87.0	69 - 118		
Chloromethane	33.7500	5.0	1.4	50.0000		67.5	46 - 137		
cis-1,2-Dichloroethene	38.8400	5.0	0.67	50.0000		77.7	68 - 118		
cis-1,3-Dichloropropene	47.4800	5.0	1.9	50.0000		95.0	77 - 121		
Di-isopropyl ether	38.0000	5.0	0.55	50.0000		76.0	60 - 129		
Dibromochloromethane	50.5300	5.0	1.0	50.0000		101	80 - 111		
Dibromomethane	44.5000	5.0	1.6	50.0000		89.0	78 - 108		
Dichlorodifluoromethane	22.6700	5.0	2.2	50.0000		45.3	41 - 146		



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0861 - MSVOA_S (continued)

LCS (B9E0861-BS1) - Continued

Prepared: 5/28/2019 Analyzed: 5/28/2019

Ethyl Acetate	348.280	50	8.1	500.000		69.7	52 - 130		
Ethyl Ether	501.790	50	6.1	500.000		100	54 - 138		
Ethyl tert-butyl ether	39.5300	5.0	0.67	50.0000		79.1	52 - 141		
Ethylbenzene	113.800	5.0	0.91	100.000		114	82 - 121		
Freon-113	55.7200	5.0	2.8	50.0000		111	59 - 139		
Hexachlorobutadiene	63.8800	5.0	2.5	50.0000		128	69 - 143		
Isopropylbenzene	51.5900	5.0	1.8	50.0000		103	78 - 124		
m,p-Xylene	98.9000	10	1.5	100.000		98.9	85 - 118		
Methylene chloride	40.3600	5.0	2.3	50.0000		80.7	44 - 146		
MTBE	36.9300	5.0	0.63	50.0000		73.9	61 - 122		
n-Butylbenzene	56.3000	5.0	2.4	50.0000		113	78 - 135		
n-Propylbenzene	49.4000	5.0	2.2	50.0000		98.8	78 - 127		
Naphthalene	42.3900	5.0	0.97	50.0000		84.8	68 - 129		
o-Xylene	96.8900	5.0	0.87	100.000		96.9	86 - 118		
sec-Butylbenzene	54.7900	5.0	2.3	50.0000		110	80 - 127		
Styrene	45.7700	5.0	1.5	50.0000		91.5	85 - 117		
tert-Amyl methyl ether	34.0100	5.0	0.59	50.0000		68.0	48 - 135		
tert-Butanol	ND	100	19	250.000		NR	0 - 175		
tert-Butylbenzene	49.3600	5.0	2.0	50.0000		98.7	81 - 122		
Tetrachloroethene	49.3200	5.0	1.6	50.0000		98.6	77 - 122		
Toluene	102.140	5.0	0.94	100.000		102	79 - 114		
trans-1,2-Dichloroethene	41.4200	5.0	0.59	50.0000		82.8	66 - 125		
trans-1,3-Dichloropropene	43.8100	5.0	2.1	50.0000		87.6	76 - 120		
Trichloroethene	46.0800	5.0	3.1	50.0000		92.2	79 - 117		
Trichlorofluoromethane	57.9300	5.0	1.4	50.0000		116	55 - 133		
Vinyl acetate	475.890	50	9.8	500.000		95.2	52 - 141		
Vinyl chloride	38.5700	5.0	1.7	50.0000		77.1	58 - 132		

Surrogate: 1,2-Dichloroethane-d4	46.87			50.0000		93.7	60 - 145		
Surrogate: 4-Bromofluorobenzene	49.01			50.0000		98.0	68 - 121		
Surrogate: Dibromofluoromethane	45.77			50.0000		91.5	65 - 137		
Surrogate: Toluene-d8	46.67			50.0000		93.3	82 - 119		

LCS (B9E0861-BS2)

Prepared: 5/28/2019 Analyzed: 5/28/2019

Gasoline Range Organics	3780.00	1000	230	5000.00		75.6	70 - 130		
Surrogate: 1,2-Dichloroethane-d4	43.37			50.0000		86.7	60 - 145		
Surrogate: 4-Bromofluorobenzene	50.07			50.0000		100	68 - 121		
Surrogate: Dibromofluoromethane	38.85			50.0000		77.7	65 - 137		
Surrogate: Toluene-d8	45.75			50.0000		91.5	82 - 119		

LCS Dup (B9E0861-BSD1)

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,1,2-Tetrachloroethane	49.6600	5.0	0.96	50.0000		99.3	82 - 114	1.64	20
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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0861 - MSVOA_S (continued)

LCS Dup (B9E0861-BSD1) - Continued

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,1-Trichloroethane	46.5600	5.0	1.1	50.0000		93.1	70 - 121	2.80	20	
1,1,2,2-Tetrachloroethane	41.7600	5.0	0.62	50.0000		83.5	65 - 116	2.69	20	
1,1,2-Trichloroethane	41.7500	5.0	1.6	50.0000		83.5	73 - 114	2.81	20	
1,1-Dichloroethane	41.8100	5.0	0.81	50.0000		83.6	69 - 117	1.52	20	
1,1-Dichloroethene	50.1700	5.0	2.6	50.0000		100	57 - 128	4.18	20	
1,1-Dichloropropene	46.1100	5.0	2.3	50.0000		92.2	76 - 122	5.24	20	
1,2,3-Trichloropropane	44.5200	5.0	0.54	50.0000		89.0	65 - 116	3.16	20	
1,2,3-Trichlorobenzene	44.2100	5.0	1.2	50.0000		88.4	72 - 130	3.45	20	
1,2,4-Trichlorobenzene	46.6700	5.0	1.1	50.0000		93.3	74 - 141	5.18	20	
1,2,4-Trimethylbenzene	49.0800	5.0	1.5	50.0000		98.2	81 - 126	5.03	20	
1,2-Dibromo-3-chloropropane	50.7700	10	1.6	50.0000		102	63 - 126	5.89	20	
1,2-Dibromoethane	42.9400	5.0	3.2	50.0000		85.9	75 - 113	0.256	20	
1,2-Dichlorobenzene	44.6800	5.0	1.1	50.0000		89.4	83 - 114	3.71	20	
1,2-Dichloroethane	50.6700	5.0	1.2	50.0000		101	73 - 115	1.59	20	
1,2-Dichloropropane	41.2400	5.0	1.8	50.0000		82.5	75 - 117	0.0485	20	
1,3,5-Trimethylbenzene	44.8400	5.0	1.7	50.0000		89.7	80 - 126	6.66	20	
1,3-Dichlorobenzene	44.8100	5.0	1.3	50.0000		89.6	83 - 113	4.11	20	
1,3-Dichloropropane	46.0500	5.0	1.1	50.0000		92.1	79 - 108	0.714	20	
1,4-Dichlorobenzene	44.2100	5.0	1.2	50.0000		88.4	82 - 114	5.07	20	
2,2-Dichloropropane	38.0200	5.0	1.2	50.0000		76.0	66 - 135	3.59	20	
2-Chlorotoluene	45.9200	5.0	1.6	50.0000		91.8	79 - 117	4.78	20	
4-Chlorotoluene	45.9700	5.0	1.5	50.0000		91.9	77 - 118	4.30	20	
4-Isopropyltoluene	50.6100	5.0	2.3	50.0000		101	81 - 129	7.24	20	
Benzene	95.4900	5.0	0.64	100.000		95.5	78 - 112	1.06	20	
Bromobenzene	41.4800	5.0	1.1	50.0000		83.0	79 - 111	6.60	20	
Bromochloromethane	38.3600	5.0	0.64	50.0000		76.7	69 - 116	1.92	20	
Bromodichloromethane	47.0000	5.0	1.2	50.0000		94.0	79 - 111	2.77	20	
Bromoform	48.2500	5.0	0.80	50.0000		96.5	75 - 119	1.17	20	
Bromomethane	43.3700	5.0	2.5	50.0000		86.7	31 - 168	5.69	20	
Carbon disulfide	46.4900	5.0	3.5	50.0000		93.0	54 - 141	1.85	20	
Carbon tetrachloride	55.3900	5.0	1.2	50.0000		111	74 - 125	6.65	20	
Chlorobenzene	45.7300	5.0	1.0	50.0000		91.5	83 - 112	2.65	20	
Chloroethane	45.9500	5.0	1.1	50.0000		91.9	53 - 144	9.24	20	
Chloroform	43.6600	5.0	0.82	50.0000		87.3	69 - 118	0.413	20	
Chloromethane	33.2700	5.0	1.4	50.0000		66.5	46 - 137	1.43	20	
cis-1,2-Dichloroethene	38.9900	5.0	0.67	50.0000		78.0	68 - 118	0.385	20	
cis-1,3-Dichloropropene	47.0500	5.0	1.9	50.0000		94.1	77 - 121	0.910	20	
Di-isopropyl ether	39.5500	5.0	0.55	50.0000		79.1	60 - 129	4.00	20	
Dibromochloromethane	49.1400	5.0	1.0	50.0000		98.3	80 - 111	2.79	20	
Dibromomethane	44.1500	5.0	1.6	50.0000		88.3	78 - 108	0.790	20	
Dichlorodifluoromethane	22.0500	5.0	2.2	50.0000		44.1	41 - 146	2.77	20	
Ethyl Acetate	361.000	50	8.1	500.000		72.2	52 - 130	3.59	20	



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Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0861 - MSVOA_S (continued)

LCS Dup (B9E0861-BSD1) - Continued

Prepared: 5/28/2019 Analyzed: 5/28/2019

Ethyl Ether	521.040	50	6.1	500.000		104	54 - 138	3.76	20	
Ethyl tert-butyl ether	39.2600	5.0	0.67	50.0000		78.5	52 - 141	0.685	20	
Ethylbenzene	109.370	5.0	0.91	100.000		109	82 - 121	3.97	20	
Freon-113	53.2000	5.0	2.8	50.0000		106	59 - 139	4.63	20	
Hexachlorobutadiene	58.0800	5.0	2.5	50.0000		116	69 - 143	9.51	20	
Isopropylbenzene	48.4400	5.0	1.8	50.0000		96.9	78 - 124	6.30	20	
m,p-Xylene	95.8400	10	1.5	100.000		95.8	85 - 118	3.14	20	
Methylene chloride	40.7200	5.0	2.3	50.0000		81.4	44 - 146	0.888	20	
MTBE	37.3100	5.0	0.63	50.0000		74.6	61 - 122	1.02	20	
n-Butylbenzene	52.6400	5.0	2.4	50.0000		105	78 - 135	6.72	20	
n-Propylbenzene	46.2000	5.0	2.2	50.0000		92.4	78 - 127	6.69	20	
Naphthalene	41.1200	5.0	0.97	50.0000		82.2	68 - 129	3.04	20	
o-Xylene	94.4400	5.0	0.87	100.000		94.4	86 - 118	2.56	20	
sec-Butylbenzene	50.9400	5.0	2.3	50.0000		102	80 - 127	7.28	20	
Styrene	45.1100	5.0	1.5	50.0000		90.2	85 - 117	1.45	20	
tert-Amyl methyl ether	33.9000	5.0	0.59	50.0000		67.8	48 - 135	0.324	20	
tert-Butanol	48.1400	100	19	250.000		19.3	0 - 175	128	20	R, J
tert-Butylbenzene	46.1000	5.0	2.0	50.0000		92.2	81 - 122	6.83	20	
Tetrachloroethene	46.4000	5.0	1.6	50.0000		92.8	77 - 122	6.10	20	
Toluene	99.3700	5.0	0.94	100.000		99.4	79 - 114	2.75	20	
trans-1,2-Dichloroethene	40.5500	5.0	0.59	50.0000		81.1	66 - 125	2.12	20	
trans-1,3-Dichloropropene	44.0400	5.0	2.1	50.0000		88.1	76 - 120	0.524	20	
Trichloroethene	43.9200	5.0	3.1	50.0000		87.8	79 - 117	4.80	20	
Trichlorofluoromethane	55.8600	5.0	1.4	50.0000		112	55 - 133	3.64	20	
Vinyl acetate	486.000	50	9.8	500.000		97.2	52 - 141	2.10	20	
Vinyl chloride	37.0000	5.0	1.7	50.0000		74.0	58 - 132	4.16	20	
Surrogate: 1,2-Dichloroethane-d4	47.38			50.0000		94.8	60 - 145			
Surrogate: 4-Bromofluorobenzene	48.52			50.0000		97.0	68 - 121			
Surrogate: Dibromofluoromethane	46.80			50.0000		93.6	65 - 137			
Surrogate: Toluene-d8	46.66			50.0000		93.3	82 - 119			

LCS Dup (B9E0861-BSD2)

Prepared: 5/28/2019 Analyzed: 5/28/2019

Gasoline Range Organics	3750.00	1000	230	5000.00		75.0	70 - 130	0.797	20	
Surrogate: 1,2-Dichloroethane-d4	41.50			50.0000		83.0	60 - 145			
Surrogate: 4-Bromofluorobenzene	49.86			50.0000		99.7	68 - 121			
Surrogate: Dibromofluoromethane	39.94			50.0000		79.9	65 - 137			
Surrogate: Toluene-d8	46.32			50.0000		92.6	82 - 119			

Duplicate (B9E0861-DUP1)

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,1,2-Tetrachloroethane	ND	5.0	0.96		ND				20	
1,1,1-Trichloroethane	ND	5.0	1.1		ND				20	



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 05/30/2019

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0861 - MSVOA_S (continued)

Duplicate (B9E0861-DUP1) - Continued

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,2,2-Tetrachloroethane	ND	5.0	0.62		ND			20	
1,1,2-Trichloroethane	ND	5.0	1.6		ND			20	
1,1-Dichloroethane	ND	5.0	0.81		ND			20	
1,1-Dichloroethene	ND	5.0	2.6		ND			20	
1,1-Dichloropropene	ND	5.0	2.3		ND			20	
1,2,3-Trichloropropane	ND	5.0	0.54		ND			20	
1,2,3-Trichlorobenzene	ND	5.0	1.2		ND			20	
1,2,4-Trichlorobenzene	ND	5.0	1.1		ND			20	
1,2,4-Trimethylbenzene	ND	5.0	1.5		ND			20	
1,2-Dibromo-3-chloropropane	ND	10	1.6		ND			20	
1,2-Dibromoethane	ND	5.0	3.2		ND			20	
1,2-Dichlorobenzene	ND	5.0	1.1		ND			20	
1,2-Dichloroethane	ND	5.0	1.2		ND			20	
1,2-Dichloropropane	ND	5.0	1.8		ND			20	
1,3,5-Trimethylbenzene	ND	5.0	1.7		ND			20	
1,3-Dichlorobenzene	ND	5.0	1.3		ND			20	
1,3-Dichloropropane	ND	5.0	1.1		ND			20	
1,4-Dichlorobenzene	ND	5.0	1.2		ND			20	
2,2-Dichloropropane	ND	5.0	1.2		ND			20	
2-Chlorotoluene	ND	5.0	1.6		ND			20	
4-Chlorotoluene	ND	5.0	1.5		ND			20	
4-Isopropyltoluene	ND	5.0	2.3		ND			20	
Benzene	ND	5.0	0.64		ND			20	
Bromobenzene	ND	5.0	1.1		ND			20	
Bromochloromethane	ND	5.0	0.64		ND			20	
Bromodichloromethane	ND	5.0	1.2		ND			20	
Bromoform	ND	5.0	0.80		ND			20	
Bromomethane	ND	5.0	2.5		ND			20	
Carbon disulfide	ND	5.0	3.5		ND			20	
Carbon tetrachloride	ND	5.0	1.2		ND			20	
Chlorobenzene	ND	5.0	1.0		ND			20	
Chloroethane	ND	5.0	1.1		ND			20	
Chloroform	ND	5.0	0.82		ND			20	
Chloromethane	ND	5.0	1.4		ND			20	
cis-1,2-Dichloroethene	ND	5.0	0.67		ND			20	
cis-1,3-Dichloropropene	ND	5.0	1.9		ND			20	
Di-isopropyl ether	ND	5.0	0.55		ND			20	
Dibromochloromethane	ND	5.0	1.0		ND			20	
Dibromomethane	ND	5.0	1.6		ND			20	
Dichlorodifluoromethane	ND	5.0	2.2		ND			20	
Ethyl Acetate	ND	50	8.1		ND			20	
Ethyl Ether	ND	50	6.1		ND			20	



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Volatile Organic Compounds by EPA 8260B - 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 B9E0861 - MSVOA_S (continued)

Duplicate (B9E0861-DUP1) - Continued

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

Ethyl tert-butyl ether	ND	5.0	0.67		ND				20	
Ethylbenzene	ND	5.0	0.91		ND				20	
Freon-113	ND	5.0	2.8		ND				20	
Hexachlorobutadiene	ND	5.0	2.5		ND				20	
Isopropylbenzene	ND	5.0	1.8		ND				20	
m,p-Xylene	ND	10	1.5		ND				20	
Methylene chloride	ND	5.0	2.3		ND				20	
MTBE	ND	5.0	0.63		ND				20	
n-Butylbenzene	ND	5.0	2.4		ND				20	
n-Propylbenzene	ND	5.0	2.2		ND				20	
Naphthalene	ND	5.0	0.97		ND				20	
o-Xylene	ND	5.0	0.87		ND				20	
sec-Butylbenzene	ND	5.0	2.3		ND				20	
Styrene	ND	5.0	1.5		ND				20	
tert-Amyl methyl ether	ND	5.0	0.59		ND				20	
tert-Butanol	ND	100	19		ND				20	
tert-Butylbenzene	ND	5.0	2.0		ND				20	
Tetrachloroethene	ND	5.0	1.6		ND				20	
Toluene	ND	5.0	0.94		ND				20	
trans-1,2-Dichloroethene	ND	5.0	0.59		ND				20	
trans-1,3-Dichloropropene	ND	5.0	2.1		ND				20	
Trichloroethene	ND	5.0	3.1		ND				20	
Trichlorofluoromethane	ND	5.0	1.4		ND				20	
Vinyl acetate	ND	50	9.8		ND				20	
Vinyl chloride	ND	5.0	1.7		ND				20	

Surrogate: 1,2-Dichloroethane-d4	44.25			50.0000		88.5	60 - 145		
Surrogate: 4-Bromofluorobenzene	45.45			50.0000		90.9	68 - 121		
Surrogate: Dibromofluoromethane	47.86			50.0000		95.7	65 - 137		
Surrogate: Toluene-d8	46.42			50.0000		92.8	82 - 119		

Duplicate (B9E0861-DUP2)

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

Gasoline Range Organics	ND	1000	230		ND			NR	20	
Surrogate: 1,2-Dichloroethane-d4	38.15			50.0000		76.3	60 - 145			
Surrogate: 4-Bromofluorobenzene	47.09			50.0000		94.2	68 - 121			
Surrogate: Dibromofluoromethane	41.01			50.0000		82.0	65 - 137			
Surrogate: Toluene-d8	46.34			50.0000		92.7	82 - 119			

Matrix Spike (B9E0861-MS1)

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,1,2-Tetrachloroethane	42.5300	5.0	0.96	50.0000	ND	85.1	45 - 121			
1,1,1-Trichloroethane	41.0300	5.0	1.1	50.0000	ND	82.1	43 - 127			
1,1,2,2-Tetrachloroethane	41.3400	5.0	0.62	50.0000	ND	82.7	32 - 128			



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Volatile Organic Compounds by EPA 8260B - 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 B9E0861 - MSVOA_S (continued)

Matrix Spike (B9E0861-MS1) - Continued

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,2-Trichloroethane	39.6600	5.0	1.6	50.0000	ND	79.3	45 - 121			
1,1-Dichloroethane	37.5300	5.0	0.81	50.0000	ND	75.1	46 - 119			
1,1-Dichloroethene	47.8400	5.0	2.6	50.0000	ND	95.7	40 - 130			
1,1-Dichloropropene	43.1900	5.0	2.3	50.0000	ND	86.4	45 - 130			
1,2,3-Trichloropropane	43.7100	5.0	0.54	50.0000	ND	87.4	42 - 124			
1,2,3-Trichlorobenzene	28.1500	5.0	1.2	50.0000	ND	56.3	4 - 135			
1,2,4-Trichlorobenzene	30.2000	5.0	1.1	50.0000	ND	60.4	8 - 141			
1,2,4-Trimethylbenzene	40.8400	5.0	1.5	50.0000	ND	81.7	30 - 136			
1,2-Dibromo-3-chloropropane	45.5100	10	1.6	50.0000	ND	91.0	38 - 132			
1,2-Dibromoethane	39.0300	5.0	3.2	50.0000	ND	78.1	45 - 121			
1,2-Dichlorobenzene	36.3300	5.0	1.1	50.0000	ND	72.7	30 - 125			
1,2-Dichloroethane	43.3300	5.0	1.2	50.0000	ND	86.7	51 - 115			
1,2-Dichloropropane	38.8000	5.0	1.8	50.0000	ND	77.6	50 - 118			
1,3,5-Trimethylbenzene	37.9700	5.0	1.7	50.0000	ND	75.9	29 - 137			
1,3-Dichlorobenzene	36.1900	5.0	1.3	50.0000	ND	72.4	30 - 124			
1,3-Dichloropropane	41.7900	5.0	1.1	50.0000	ND	83.6	49 - 116			
1,4-Dichlorobenzene	36.1900	5.0	1.2	50.0000	ND	72.4	31 - 124			
2,2-Dichloropropane	32.4200	5.0	1.2	50.0000	ND	64.8	41 - 134			
2-Chlorotoluene	38.4400	5.0	1.6	50.0000	ND	76.9	32 - 127			
4-Chlorotoluene	38.0900	5.0	1.5	50.0000	ND	76.2	34 - 124			
4-Isopropyltoluene	39.0700	5.0	2.3	50.0000	ND	78.1	26 - 141			
Benzene	88.3200	5.0	0.64	100.000	ND	88.3	48 - 117			
Bromobenzene	37.6700	5.0	1.1	50.0000	ND	75.3	40 - 117			
Bromochloromethane	35.6600	5.0	0.64	50.0000	ND	71.3	48 - 117			
Bromodichloromethane	40.7200	5.0	1.2	50.0000	ND	81.4	49 - 115			
Bromoform	43.0200	5.0	0.80	50.0000	ND	86.0	42 - 127			
Bromomethane	38.6600	5.0	2.5	50.0000	ND	77.3	19 - 157			
Carbon disulfide	41.8500	5.0	3.5	50.0000	ND	83.7	34 - 138			
Carbon tetrachloride	48.5900	5.0	1.2	50.0000	ND	97.2	43 - 130			
Chlorobenzene	39.1300	5.0	1.0	50.0000	ND	78.3	41 - 122			
Chloroethane	42.4800	5.0	1.1	50.0000	ND	85.0	32 - 145			
Chloroform	38.4700	5.0	0.82	50.0000	ND	76.9	46 - 118			
Chloromethane	28.9200	5.0	1.4	50.0000	ND	57.8	34 - 132			
cis-1,2-Dichloroethene	35.6500	5.0	0.67	50.0000	ND	71.3	44 - 119			
cis-1,3-Dichloropropene	42.7500	5.0	1.9	50.0000	ND	85.5	44 - 126			
Di-isopropyl ether	37.0100	5.0	0.55	50.0000	ND	74.0	42 - 126			
Dibromochloromethane	43.4000	5.0	1.0	50.0000	ND	86.8	46 - 119			
Dibromomethane	40.6600	5.0	1.6	50.0000	ND	81.3	52 - 114			
Dichlorodifluoromethane	19.9500	5.0	2.2	50.0000	ND	39.9	22 - 147			
Ethyl Acetate	305.960	50	8.1	500.000	ND	61.2	9 - 140			
Ethyl Ether	480.680	50	6.1	500.000	ND	96.1	45 - 131			
Ethyl tert-butyl ether	37.0100	5.0	0.67	50.0000	ND	74.0	33 - 138			



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Volatile Organic Compounds by EPA 8260B - 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 B9E0861 - MSVOA_S (continued)

Matrix Spike (B9E0861-MS1) - Continued

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

Ethylbenzene	91.8000	5.0	0.91	100.000	ND	91.8	38 - 131			
Freon-113	48.7400	5.0	2.8	50.0000	ND	97.5	38 - 140			
Hexachlorobutadiene	29.0800	5.0	2.5	50.0000	ND	58.2	4 - 141			
Isopropylbenzene	43.0200	5.0	1.8	50.0000	ND	86.0	35 - 133			
m,p-Xylene	80.3200	10	1.5	100.000	ND	80.3	38 - 130			
Methylene chloride	37.4300	5.0	2.3	50.0000	ND	74.9	26 - 137			
MTBE	35.3800	5.0	0.63	50.0000	ND	70.8	45 - 121			
n-Butylbenzene	36.8200	5.0	2.4	50.0000	ND	73.6	18 - 144			
n-Propylbenzene	39.3800	5.0	2.2	50.0000	ND	78.8	30 - 137			
Naphthalene	32.0400	5.0	0.97	50.0000	ND	64.1	14 - 137			
o-Xylene	78.3900	5.0	0.87	100.000	ND	78.4	41 - 129			
sec-Butylbenzene	40.1000	5.0	2.3	50.0000	ND	80.2	24 - 140			
Styrene	37.9100	5.0	1.5	50.0000	ND	75.8	41 - 125			
tert-Amyl methyl ether	31.7300	5.0	0.59	50.0000	ND	63.5	31 - 133			
tert-Butanol	118.680	100	19	250.000	ND	47.5	0 - 201			
tert-Butylbenzene	38.9800	5.0	2.0	50.0000	ND	78.0	30 - 134			
Tetrachloroethene	40.1900	5.0	1.6	50.0000	ND	80.4	37 - 130			
Toluene	89.8500	5.0	0.94	100.000	ND	89.8	45 - 122			
trans-1,2-Dichloroethene	37.2000	5.0	0.59	50.0000	ND	74.4	46 - 122			
trans-1,3-Dichloropropene	38.2500	5.0	2.1	50.0000	ND	76.5	44 - 124			
Trichloroethene	41.1300	5.0	3.1	50.0000	ND	82.3	36 - 142			
Trichlorofluoromethane	48.8000	5.0	1.4	50.0000	ND	97.6	37 - 135			
Vinyl acetate	286.070	50	9.8	500.000	ND	57.2	0 - 136			
Vinyl chloride	35.1600	5.0	1.7	50.0000	ND	70.3	42 - 131			

Surrogate: 1,2-Dichloroethane-d4	44.97			50.0000		89.9	60 - 145			
Surrogate: 4-Bromofluorobenzene	47.31			50.0000		94.6	68 - 121			
Surrogate: Dibromofluoromethane	46.22			50.0000		92.4	65 - 137			
Surrogate: Toluene-d8	46.63			50.0000		93.3	82 - 119			

Matrix Spike Dup (B9E0861-MSD1)

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,1,1,2-Tetrachloroethane	39.6000	5.0	0.96	50.0000	ND	79.2	45 - 121	7.14	20	
1,1,1-Trichloroethane	36.5200	5.0	1.1	50.0000	ND	73.0	43 - 127	11.6	20	
1,1,2,2-Tetrachloroethane	37.3700	5.0	0.62	50.0000	ND	74.7	32 - 128	10.1	20	
1,1,2-Trichloroethane	36.8700	5.0	1.6	50.0000	ND	73.7	45 - 121	7.29	20	
1,1-Dichloroethane	35.5000	5.0	0.81	50.0000	ND	71.0	46 - 119	5.56	20	
1,1-Dichloroethene	40.8200	5.0	2.6	50.0000	ND	81.6	40 - 130	15.8	20	
1,1-Dichloropropene	38.6200	5.0	2.3	50.0000	ND	77.2	45 - 130	11.2	20	
1,2,3-Trichloropropane	40.9700	5.0	0.54	50.0000	ND	81.9	42 - 124	6.47	20	
1,2,3-Trichlorobenzene	27.3800	5.0	1.2	50.0000	ND	54.8	4 - 135	2.77	20	
1,2,4-Trichlorobenzene	28.8300	5.0	1.1	50.0000	ND	57.7	8 - 141	4.64	20	
1,2,4-Trimethylbenzene	36.8200	5.0	1.5	50.0000	ND	73.6	30 - 136	10.4	20	



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Volatile Organic Compounds by EPA 8260B - 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 B9E0861 - MSVOA_S (continued)

Matrix Spike Dup (B9E0861-MSD1) - Continued

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

1,2-Dibromo-3-chloropropane	45.7900	10	1.6	50.0000	ND	91.6	38 - 132	0.613	20	
1,2-Dibromoethane	36.3600	5.0	3.2	50.0000	ND	72.7	45 - 121	7.08	20	
1,2-Dichlorobenzene	34.1600	5.0	1.1	50.0000	ND	68.3	30 - 125	6.16	20	
1,2-Dichloroethane	40.3600	5.0	1.2	50.0000	ND	80.7	51 - 115	7.10	20	
1,2-Dichloropropane	36.1400	5.0	1.8	50.0000	ND	72.3	50 - 118	7.10	20	
1,3,5-Trimethylbenzene	35.2800	5.0	1.7	50.0000	ND	70.6	29 - 137	7.34	20	
1,3-Dichlorobenzene	33.5500	5.0	1.3	50.0000	ND	67.1	30 - 124	7.57	20	
1,3-Dichloropropane	40.1400	5.0	1.1	50.0000	ND	80.3	49 - 116	4.03	20	
1,4-Dichlorobenzene	33.5200	5.0	1.2	50.0000	ND	67.0	31 - 124	7.66	20	
2,2-Dichloropropane	28.9800	5.0	1.2	50.0000	ND	58.0	41 - 134	11.2	20	
2-Chlorotoluene	35.1200	5.0	1.6	50.0000	ND	70.2	32 - 127	9.03	20	
4-Chlorotoluene	34.9400	5.0	1.5	50.0000	ND	69.9	34 - 124	8.63	20	
4-Isopropyltoluene	36.0000	5.0	2.3	50.0000	ND	72.0	26 - 141	8.18	20	
Benzene	81.2500	5.0	0.64	100.000	ND	81.2	48 - 117	8.34	20	
Bromobenzene	34.4800	5.0	1.1	50.0000	ND	69.0	40 - 117	8.84	20	
Bromochloromethane	33.3700	5.0	0.64	50.0000	ND	66.7	48 - 117	6.63	20	
Bromodichloromethane	38.3100	5.0	1.2	50.0000	ND	76.6	49 - 115	6.10	20	
Bromoform	40.7900	5.0	0.80	50.0000	ND	81.6	42 - 127	5.32	20	
Bromomethane	32.8600	5.0	2.5	50.0000	ND	65.7	19 - 157	16.2	20	
Carbon disulfide	36.8800	5.0	3.5	50.0000	ND	73.8	34 - 138	12.6	20	
Carbon tetrachloride	43.6100	5.0	1.2	50.0000	ND	87.2	43 - 130	10.8	20	
Chlorobenzene	37.0300	5.0	1.0	50.0000	ND	74.1	41 - 122	5.51	20	
Chloroethane	35.4400	5.0	1.1	50.0000	ND	70.9	32 - 145	18.1	20	
Chloroform	35.5900	5.0	0.82	50.0000	ND	71.2	46 - 118	7.78	20	
Chloromethane	25.4300	5.0	1.4	50.0000	ND	50.9	34 - 132	12.8	20	
cis-1,2-Dichloroethene	33.3700	5.0	0.67	50.0000	ND	66.7	44 - 119	6.61	20	
cis-1,3-Dichloropropene	39.5800	5.0	1.9	50.0000	ND	79.2	44 - 126	7.70	20	
Di-isopropyl ether	34.2700	5.0	0.55	50.0000	ND	68.5	42 - 126	7.69	20	
Dibromochloromethane	40.7400	5.0	1.0	50.0000	ND	81.5	46 - 119	6.32	20	
Dibromomethane	38.3700	5.0	1.6	50.0000	ND	76.7	52 - 114	5.80	20	
Dichlorodifluoromethane	17.0300	5.0	2.2	50.0000	ND	34.1	22 - 147	15.8	20	
Ethyl Acetate	259.810	50	8.1	500.000	ND	52.0	9 - 140	16.3	20	
Ethyl Ether	446.760	50	6.1	500.000	ND	89.4	45 - 131	7.31	20	
Ethyl tert-butyl ether	33.0000	5.0	0.67	50.0000	ND	66.0	33 - 138	11.5	20	
Ethylbenzene	85.5000	5.0	0.91	100.000	ND	85.5	38 - 131	7.11	20	
Freon-113	43.1800	5.0	2.8	50.0000	ND	86.4	38 - 140	12.1	20	
Hexachlorobutadiene	31.7200	5.0	2.5	50.0000	ND	63.4	4 - 141	8.68	20	
Isopropylbenzene	39.2500	5.0	1.8	50.0000	ND	78.5	35 - 133	9.16	20	
m,p-Xylene	74.5400	10	1.5	100.000	ND	74.5	38 - 130	7.46	20	
Methylene chloride	37.5100	5.0	2.3	50.0000	ND	75.0	26 - 137	0.213	20	
MTBE	31.6100	5.0	0.63	50.0000	ND	63.2	45 - 121	11.3	20	
n-Butylbenzene	35.4500	5.0	2.4	50.0000	ND	70.9	18 - 144	3.79	20	



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Report To : Ross Surrency

Reported : 05/30/2019

Volatile Organic Compounds by EPA 8260B - 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 B9E0861 - MSVOA_S (continued)

Matrix Spike Dup (B9E0861-MSD1) - Continued

Source: 1902114-01

Prepared: 5/28/2019 Analyzed: 5/28/2019

n-Propylbenzene	36.2300	5.0	2.2	50.0000	ND	72.5	30 - 137	8.33	20	
Naphthalene	30.4600	5.0	0.97	50.0000	ND	60.9	14 - 137	5.06	20	
o-Xylene	73.3600	5.0	0.87	100.000	ND	73.4	41 - 129	6.63	20	
sec-Butylbenzene	37.4300	5.0	2.3	50.0000	ND	74.9	24 - 140	6.89	20	
Styrene	35.5300	5.0	1.5	50.0000	ND	71.1	41 - 125	6.48	20	
tert-Amyl methyl ether	28.5900	5.0	0.59	50.0000	ND	57.2	31 - 133	10.4	20	
tert-Butanol	57.8300	100	19	250.000	ND	23.1	0 - 201	68.9	20	R, J
tert-Butylbenzene	35.9100	5.0	2.0	50.0000	ND	71.8	30 - 134	8.20	20	
Tetrachloroethene	37.8000	5.0	1.6	50.0000	ND	75.6	37 - 130	6.13	20	
Toluene	81.3500	5.0	0.94	100.000	ND	81.4	45 - 122	9.93	20	
trans-1,2-Dichloroethene	35.1000	5.0	0.59	50.0000	ND	70.2	46 - 122	5.81	20	
trans-1,3-Dichloropropene	35.1000	5.0	2.1	50.0000	ND	70.2	44 - 124	8.59	20	
Trichloroethene	37.6100	5.0	3.1	50.0000	ND	75.2	36 - 142	8.94	20	
Trichlorofluoromethane	42.5100	5.0	1.4	50.0000	ND	85.0	37 - 135	13.8	20	
Vinyl acetate	227.360	50	9.8	500.000	ND	45.5	0 - 136	22.9	20	R
Vinyl chloride	30.6800	5.0	1.7	50.0000	ND	61.4	42 - 131	13.6	20	
Surrogate: 1,2-Dichloroethane-d4	43.94			50.0000		87.9	60 - 145			
Surrogate: 4-Bromofluorobenzene	46.93			50.0000		93.9	68 - 121			
Surrogate: Dibromofluoromethane	46.20			50.0000		92.4	65 - 137			
Surrogate: Toluene-d8	46.46			50.0000		92.9	82 - 119			



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Semivolatile Organic Compounds by EPA 8270C - Quality Control

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 B9E0909 - MSSEMI_S

Blank (B9E0909-BLK1)

Prepared: 5/28/2019 Analyzed: 5/29/2019

1,2,4-Trichlorobenzene	ND	330	71
1,2-Dichlorobenzene	ND	330	60
1,3-Dichlorobenzene	ND	330	65
1,4-Dichlorobenzene	ND	330	60
2,4,5-Trichlorophenol	ND	330	61
2,4,6-Trichlorophenol	ND	330	220
2,4-Dichlorophenol	ND	1600	120
2,4-Dimethylphenol	ND	330	120
2,4-Dinitrophenol	ND	1600	86
2,4-Dinitrotoluene	ND	330	46
2,6-Dinitrotoluene	ND	330	49
2-Chloronaphthalene	ND	330	59
2-Chlorophenol	ND	330	120
2-Methylnaphthalene	ND	330	67
2-Methylphenol	ND	330	67
2-Nitroaniline	ND	1600	200
2-Nitrophenol	ND	330	110
3,3'-Dichlorobenzidine	ND	660	280
3-Nitroaniline	ND	1600	44
4,6-Dinitro-2-methylphenol	ND	1600	300
4-Bromophenyl-phenylether	ND	330	50
4-Chloro-3-methylphenol	ND	660	110
4-Chloroaniline	ND	660	53
4-Chlorophenyl-phenylether	ND	330	48
4-Methylphenol	ND	330	66
4-Nitroaniline	ND	1600	290
4-Nitrophenol	ND	330	150
Acenaphthene	ND	330	48
Acenaphthylene	ND	330	51
Anthracene	ND	330	49
Benidine (M)	ND	1600	1400
Benzo(a)anthracene	ND	330	39
Benzo(a)pyrene	ND	330	45
Benzo(b)fluoranthene	ND	330	55
Benzo(g,h,i)perylene	ND	330	38
Benzo(k)fluoranthene	ND	330	52
Benzoic acid	ND	1600	890
Benzyl alcohol	ND	660	67
bis(2-chloroethoxy)methane	ND	330	59
bis(2-Chloroethyl)ether	ND	330	57
bis(2-chloroisopropyl)ether	ND	330	65



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0909 - MSSEMI_S (continued)

Blank (B9E0909-BLK1) - Continued

Prepared: 5/28/2019 Analyzed: 5/29/2019

bis(2-ethylhexyl)phthalate	ND	330	83
Butylbenzylphthalate	ND	330	250
Chrysene	ND	330	43
Di-n-butylphthalate	ND	330	230
Di-n-octylphthalate	ND	330	48
Dibenz(a,h)anthracene	ND	330	43
Dibenzofuran	ND	330	55
Diethyl phthalate	ND	330	47
Dimethyl phthalate	ND	330	46
Fluoranthene	ND	330	47
Fluorene	ND	330	49
Hexachlorobenzene	ND	330	41
Hexachlorobutadiene	ND	660	61
Hexachlorocyclopentadiene	ND	660	64
Hexachloroethane	ND	330	71
Indeno(1,2,3-cd)pyrene	ND	330	44
Isophorone	ND	330	57
N-Nitroso-di-n propylamine	ND	330	65
N-Nitrosodiphenylamine	ND	330	48
Naphthalene	ND	330	60
Nitrobenzene	ND	330	67
Pentachlorophenol	ND	1600	190
Phenanthrene	ND	330	46
Phenol	ND	330	130
Pyrene	ND	330	53
Pyridine	ND	1600	270

Surrogate: 1,2-Dichlorobenzene-d	2214		3333.33	66.4	16 - 87
Surrogate: 2,4,6-Tribromophenol	4234		3325.00	127	0 - 148
Surrogate: 2-Chlorophenol-d4	2181		3325.00	65.6	17 - 96
Surrogate: 2-Fluorobiphenyl	3029		3333.33	90.9	16 - 107
Surrogate: 2-Fluorophenol	1946		3325.00	58.5	16 - 86
Surrogate: 4-Terphenyl-d14	3334		3333.33	100	3 - 156
Surrogate: Nitrobenzene-d5	2385		3333.33	71.5	16 - 99
Surrogate: Phenol-d6	2265		3325.00	68.1	17 - 90

LCS (B9E0909-BS1)

Prepared: 5/28/2019 Analyzed: 5/29/2019

1,2,4-Trichlorobenzene	2907.67	330	71	3333.33	87.2	48 - 92
1,2-Dichlorobenzene	2506.67	330	60	3333.33	75.2	40 - 86
1,3-Dichlorobenzene	2525.33	330	65	3333.33	75.8	39 - 82
1,4-Dichlorobenzene	2494.33	330	60	3333.33	74.8	40 - 82
2,4,5-Trichlorophenol	3539.33	330	61	3333.33	106	70 - 111



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0909 - MSSEMI_S (continued)

LCS (B9E0909-BS1) - Continued

Prepared: 5/28/2019 Analyzed: 5/29/2019

2,4,6-Trichlorophenol	3325.00	330	220	3333.33		99.8	54 - 121		
2,4-Dichlorophenol	2973.67	1600	120	3333.33		89.2	49 - 111		
2,4-Dimethylphenol	2877.67	330	120	3333.33		86.3	43 - 116		
2,4-Dinitrophenol	3785.00	1600	86	3333.33		114	48 - 138		
2,4-Dinitrotoluene	3437.00	330	46	3333.33		103	62 - 112		
2,6-Dinitrotoluene	3226.00	330	49	3333.33		96.8	59 - 114		
2-Chloronaphthalene	3192.00	330	59	3333.33		95.8	57 - 92		L4
2-Chlorophenol	2491.33	330	120	3333.33		74.7	43 - 94		
2-Methylnaphthalene	3183.00	330	67	3333.33		95.5	49 - 109		
2-Methylphenol	2521.00	330	67	3333.33		75.6	50 - 95		
2-Nitroaniline	3417.33	1600	200	3333.33		103	57 - 120		
2-Nitrophenol	2717.33	330	110	3333.33		81.5	48 - 110		
3,3'-Dichlorobenzidine	2941.67	660	280	3333.33		88.3	38 - 115		
3-Nitroaniline	3316.00	1600	44	3333.33		99.5	62 - 110		
4,6-Dinitro-2-methylphenol	3024.67	1600	300	3333.33		90.7	57 - 136		
4-Bromophenyl-phenylether	3191.00	330	50	3333.33		95.7	64 - 106		
4-Chloro-3-methylphenol	2936.33	660	110	3333.33		88.1	54 - 114		
4-Chloroaniline	3086.33	660	53	3333.33		92.6	60 - 103		
4-Chlorophenyl-phenylether	3368.33	330	48	3333.33		101	57 - 106		
4-Methylphenol	2901.33	330	66	3333.33		87.0	53 - 96		
4-Nitroaniline	3309.33	1600	290	3333.33		99.3	69 - 111		
4-Nitrophenol	2997.00	330	150	3333.33		89.9	51 - 141		
Acenaphthene	3140.67	330	48	3333.33		94.2	61 - 105		
Acenaphthylene	3095.33	330	51	3333.33		92.9	62 - 103		
Anthracene	2875.67	330	49	3333.33		86.3	68 - 113		
Benzidine (M)	ND	1600	1400	3333.33		NR	25 - 109		L4
Benzo(a)anthracene	2976.67	330	39	3333.33		89.3	66 - 110		
Benzo(a)pyrene	3021.00	330	45	3333.33		90.6	68 - 118		
Benzo(b)fluoranthene	2921.67	330	55	3333.33		87.7	64 - 117		
Benzo(g,h,i)perylene	3034.00	330	38	3333.33		91.0	68 - 114		
Benzo(k)fluoranthene	3055.67	330	52	3333.33		91.7	62 - 121		
Benzoic acid	2627.67	1600	890	3333.33		78.8	23 - 115		
Benzyl alcohol	2809.67	660	67	3333.33		84.3	47 - 99		
bis(2-chloroethoxy)methane	2780.00	330	59	3333.33		83.4	41 - 90		
bis(2-Chloroethyl)ether	2489.33	330	57	3333.33		74.7	38 - 84		
bis(2-chloroisopropyl)ether	2565.00	330	65	3333.33		77.0	20 - 100		
bis(2-ethylhexyl)phthalate	2609.67	330	83	3333.33		78.3	57 - 111		
Butylbenzylphthalate	2791.33	330	250	3333.33		83.7	54 - 109		
Chrysene	2825.33	330	43	3333.33		84.8	61 - 113		
Di-n-butylphthalate	3049.33	330	230	3333.33		91.5	65 - 113		
Di-n-octylphthalate	2920.67	330	48	3333.33		87.6	54 - 111		
Dibenz(a,h)anthracene	3067.00	330	43	3333.33		92.0	63 - 126		



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Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Spike Level	Source Result	% Rec Limits	RPD	RPD Limit	Notes
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Batch B9E0909 - MSSEMI_S (continued)

LCS (B9E0909-BS1) - Continued

Prepared: 5/28/2019 Analyzed: 5/29/2019

Dibenzofuran	3614.67	330	55	3333.33		108	67 - 103		L4
Diethyl phthalate	3118.00	330	47	3333.33		93.5	62 - 108		
Dimethyl phthalate	3216.33	330	46	3333.33		96.5	65 - 103		
Fluoranthene	3037.67	330	47	3333.33		91.1	66 - 117		
Fluorene	3270.33	330	49	3333.33		98.1	65 - 112		
Hexachlorobenzene	3386.67	330	41	3333.33		102	59 - 117		
Hexachlorobutadiene	2929.33	660	61	3333.33		87.9	44 - 99		
Hexachlorocyclopentadiene	3556.00	660	64	3333.33		107	44 - 102		L4
Hexachloroethane	2387.00	330	71	3333.33		71.6	38 - 85		
Indeno(1,2,3-cd)pyrene	3168.67	330	44	3333.33		95.1	63 - 123		
Isophorone	2799.00	330	57	3333.33		84.0	46 - 98		
N-Nitroso-di-n propylamine	2749.67	330	65	3333.33		82.5	45 - 98		
N-Nitrosodiphenylamine	3025.33	330	48	3333.33		90.8	67 - 101		
Naphthalene	2775.00	330	60	3333.33		83.3	54 - 92		
Nitrobenzene	2788.33	330	67	3333.33		83.6	45 - 94		
Pentachlorophenol	3282.00	1600	190	3333.33		98.5	45 - 137		
Phenanthrene	2950.00	330	46	3333.33		88.5	68 - 113		
Phenol	2517.67	330	130	3333.33		75.5	40 - 95		
Pyrene	2993.33	330	53	3333.33		89.8	62 - 124		
Pyridine	418.000	1600	270	3333.33		12.5	3 - 93		J
Surrogate: 1,2-Dichlorobenzene-d	2307			3333.33		69.2	16 - 87		
Surrogate: 2,4,6-Tribromophenol	3691			3325.00		111	0 - 148		
Surrogate: 2-Chlorophenol-d4	2180			3325.00		65.6	17 - 96		
Surrogate: 2-Fluorobiphenyl	2995			3333.33		89.9	16 - 107		
Surrogate: 2-Fluorophenol	2032			3325.00		61.1	16 - 86		
Surrogate: 4-Terphenyl-d14	2722			3333.33		81.7	3 - 156		
Surrogate: Nitrobenzene-d5	2541			3333.33		76.2	16 - 99		
Surrogate: Phenol-d6	2303			3325.00		69.3	17 - 90		

Duplicate (B9E0909-DUP1)

Source: 1902114-27

Prepared: 5/28/2019 Analyzed: 5/29/2019

1,2,4-Trichlorobenzene	ND	660	140	ND		20	D1
1,2-Dichlorobenzene	ND	660	120	ND		20	D1
1,3-Dichlorobenzene	ND	660	130	ND		20	D1
1,4-Dichlorobenzene	ND	660	120	ND		20	D1
2,4,5-Trichlorophenol	ND	660	120	ND		20	D1
2,4,6-Trichlorophenol	ND	660	450	ND		20	D1
2,4-Dichlorophenol	ND	3300	230	ND		20	D1
2,4-Dimethylphenol	ND	660	240	ND		20	D1
2,4-Dinitrophenol	ND	3300	170	ND		20	D1
2,4-Dinitrotoluene	ND	660	91	ND		20	D1
2,6-Dinitrotoluene	ND	660	98	ND		20	D1



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Semivolatile Organic Compounds by EPA 8270C - 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 B9E0909 - MSSEMI_S (continued)

Duplicate (B9E0909-DUP1) - Continued

Source: 1902114-27

Prepared: 5/28/2019 Analyzed: 5/29/2019

2-Chloronaphthalene	ND	660	120		ND				20	D1
2-Chlorophenol	ND	660	240		ND				20	D1
2-Methylnaphthalene	ND	660	130		ND				20	D1
2-Methylphenol	ND	660	130		ND				20	D1
2-Nitroaniline	ND	3300	410		ND				20	D1
2-Nitrophenol	ND	660	210		ND				20	D1
3,3'-Dichlorobenzidine	ND	1300	560		ND				20	D1
3-Nitroaniline	ND	3300	89		ND				20	D1
4,6-Dinitro-2-methylphenol	ND	3300	600		ND				20	D1
4-Bromophenyl-phenylether	ND	660	99		ND				20	D1
4-Chloro-3-methylphenol	ND	1300	210		ND				20	D1
4-Chloroaniline	ND	1300	110		ND				20	D1
4-Chlorophenyl-phenylether	ND	660	95		ND				20	D1
4-Methylphenol	ND	660	130		ND				20	D1
4-Nitroaniline	ND	3300	580		ND				20	D1
4-Nitrophenol	ND	660	300		ND				20	D1
Acenaphthene	ND	660	97		ND				20	D1
Acenaphthylene	ND	660	100		ND				20	D1
Anthracene	ND	660	97		ND				20	D1
Benidine (M)	ND	3300	2900		ND				20	D1
Benzo(a)anthracene	ND	660	78		ND				20	D1
Benzo(a)pyrene	ND	660	91		ND				20	D1
Benzo(b)fluoranthene	ND	660	110		ND				20	D1
Benzo(g,h,i)perylene	ND	660	75		ND				20	D1
Benzo(k)fluoranthene	ND	660	100		ND				20	D1
Benzoic acid	ND	3300	1800		ND				20	D1
Benzyl alcohol	ND	1300	130		ND				20	D1
bis(2-chloroethoxy)methane	ND	660	120		ND				20	D1
bis(2-Chloroethyl)ether	ND	660	110		ND				20	D1
bis(2-chloroisopropyl)ether	ND	660	130		ND				20	D1
bis(2-ethylhexyl)phthalate	ND	660	170		ND			NR	20	D1
Butylbenzylphthalate	ND	660	490		ND			NR	20	D1
Chrysene	ND	660	86		ND				20	D1
Di-n-butylphthalate	ND	660	450		ND				20	D1
Di-n-octylphthalate	ND	660	96		ND				20	D1
Dibenz(a,h)anthracene	ND	660	87		ND				20	D1
Dibenzofuran	ND	660	110		ND				20	D1
Diethyl phthalate	ND	660	95		ND				20	D1
Dimethyl phthalate	ND	660	92		ND				20	D1
Fluoranthene	ND	660	95		ND				20	D1
Fluorene	ND	660	98		ND				20	D1
Hexachlorobenzene	ND	660	82		ND				20	D1



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Semivolatile Organic Compounds by EPA 8270C - 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 B9E0909 - MSSEMI_S (continued)

Duplicate (B9E0909-DUP1) - Continued

Source: 1902114-27

Prepared: 5/28/2019 Analyzed: 5/29/2019

Hexachlorobutadiene	ND	1300	120		ND			20	D1
Hexachlorocyclopentadiene	ND	1300	130		ND			20	D1
Hexachloroethane	ND	660	140		ND			20	D1
Indeno(1,2,3-cd)pyrene	ND	660	87		ND			20	D1
Isophorone	ND	660	110		ND			20	D1
N-Nitroso-di-n propylamine	ND	660	130		ND			20	D1
N-Nitrosodiphenylamine	ND	660	96		ND			20	D1
Naphthalene	ND	660	120		ND			20	D1
Nitrobenzene	ND	660	130		ND			20	D1
Pentachlorophenol	ND	3300	370		ND			20	D1
Phenanthrene	ND	660	92		ND			20	D1
Phenol	ND	660	260		ND			20	D1
Pyrene	ND	660	110		ND			20	D1
Pyridine	ND	3300	530		ND			20	D1

Surrogate: 1,2-Dichlorobenzene-d	2037			3333.33		61.1	16 - 87		
Surrogate: 2,4,6-Tribromophenol	3986			3325.00		120	0 - 148		
Surrogate: 2-Chlorophenol-d4	2166			3325.00		65.1	17 - 96		
Surrogate: 2-Fluorobiphenyl	2655			3333.33		79.6	16 - 107		
Surrogate: 2-Fluorophenol	1883			3325.00		56.6	16 - 86		
Surrogate: 4-Terphenyl-d14	2806			3333.33		84.2	3 - 156		
Surrogate: Nitrobenzene-d5	2123			3333.33		63.7	16 - 99		
Surrogate: Phenol-d6	2167			3325.00		65.2	17 - 90		

Matrix Spike (B9E0909-MS1)

Source: 1902114-25

Prepared: 5/28/2019 Analyzed: 5/29/2019

1,2,4-Trichlorobenzene	3013.33	6600	1400	3333.33	ND	90.4	27 - 96		J
1,2-Dichlorobenzene	2746.67	6600	1200	3333.33	ND	82.4	25 - 87		J
1,3-Dichlorobenzene	2546.67	6600	1300	3333.33	ND	76.4	24 - 84		J
1,4-Dichlorobenzene	2626.67	6600	1200	3333.33	ND	78.8	25 - 85		J
2,4,5-Trichlorophenol	2853.33	6600	1200	3333.33	ND	85.6	29 - 122		J
2,4,6-Trichlorophenol	ND	6600	4500	3333.33	ND	NR	21 - 127		M2
2,4-Dichlorophenol	2473.33	33000	2300	3333.33	ND	74.2	24 - 115		J
2,4-Dimethylphenol	2540.00	6600	2400	3333.33	ND	76.2	19 - 124		J
2,4-Dinitrophenol	ND	33000	1700	3333.33	ND	NR	0 - 118		
2,4-Dinitrotoluene	2426.67	6600	910	3333.33	ND	72.8	35 - 112		J
2,6-Dinitrotoluene	2586.67	6600	980	3333.33	ND	77.6	15 - 137		J
2-Chloronaphthalene	3193.33	6600	1200	3333.33	ND	95.8	35 - 95		M2, J
2-Chlorophenol	2513.33	6600	2400	3333.33	ND	75.4	22 - 100		J
2-Methylnaphthalene	2966.67	6600	1300	3333.33	ND	89.0	17 - 123		J
2-Methylphenol	2466.67	6600	1300	3333.33	ND	74.0	28 - 100		J
2-Nitroaniline	ND	33000	4100	3333.33	ND	NR	34 - 120		M2
2-Nitrophenol	2240.00	6600	2100	3333.33	ND	67.2	22 - 116		J



Certificate of Analysis

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

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 05/30/2019

Semivolatile Organic Compounds by EPA 8270C - 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 B9E0909 - MSSEMI_S (continued)

Matrix Spike (B9E0909-MS1) - Continued

Source: 1902114-25

Prepared: 5/28/2019 Analyzed: 5/29/2019

3,3'-Dichlorobenzidine	ND	13000	5600	3333.33	ND	NR	9 - 117			M2
3-Nitroaniline	2400.00	33000	890	3333.33	ND	72.0	29 - 116			J
4,6-Dinitro-2-methylphenol	ND	33000	6000	3333.33	ND	NR	21 - 126			M2
4-Bromophenyl-phenylether	2966.67	6600	990	3333.33	ND	89.0	36 - 108			J
4-Chloro-3-methylphenol	2306.67	13000	2100	3333.33	ND	69.2	32 - 116			J
4-Chloroaniline	2673.33	13000	1100	3333.33	ND	80.2	22 - 115			J
4-Chlorophenyl-phenylether	3120.00	6600	950	3333.33	ND	93.6	36 - 104			J
4-Methylphenol	2613.33	6600	1300	3333.33	ND	78.4	32 - 98			J
4-Nitroaniline	ND	33000	5800	3333.33	ND	NR	37 - 116			M2
4-Nitrophenol	ND	6600	3000	3333.33	ND	NR	0 - 148			
Acenaphthene	2913.33	6600	970	3333.33	ND	87.4	35 - 108			J
Acenaphthylene	2846.67	6600	1000	3333.33	ND	85.4	35 - 108			J
Anthracene	2746.67	6600	970	3333.33	ND	82.4	40 - 114			J
Benazidine (M)	ND	33000	29000	3333.33	ND	NR	0 - 161			
Benzo(a)anthracene	2706.67	6600	780	3333.33	ND	81.2	42 - 113			J
Benzo(a)pyrene	2426.67	6600	910	3333.33	ND	72.8	38 - 117			J
Benzo(b)fluoranthene	2646.67	6600	1100	3333.33	ND	79.4	35 - 117			J
Benzo(g,h,i)perylene	2720.00	6600	750	3333.33	ND	81.6	32 - 121			J
Benzo(k)fluoranthene	2380.00	6600	1000	3333.33	ND	71.4	34 - 119			J
Benzoic acid	ND	33000	18000	3333.33	ND	NR	19 - 133			M2
Benzyl alcohol	2506.67	13000	1300	3333.33	ND	75.2	24 - 102			J
bis(2-chloroethoxy)methane	2653.33	6600	1200	3333.33	ND	79.6	27 - 88			J
bis(2-Chloroethyl)ether	2586.67	6600	1100	3333.33	ND	77.6	26 - 82			J
bis(2-chloroisopropyl)ether	2866.67	6600	1300	3333.33	ND	86.0	15 - 92			J
bis(2-ethylhexyl)phthalate	1686.67	6600	1700	3333.33	ND	50.6	21 - 128			J
Butylbenzylphthalate	ND	6600	4900	3333.33	ND	NR	14 - 136			M2
Chrysene	2860.00	6600	860	3333.33	ND	85.8	37 - 113			J
Di-n-butylphthalate	ND	6600	4500	3333.33	ND	NR	40 - 112			M2
Di-n-octylphthalate	1346.67	6600	960	3333.33	ND	40.4	8 - 137			J
Dibenz(a,h)anthracene	2366.67	6600	870	3333.33	ND	71.0	29 - 128			J
Dibenzofuran	3340.00	6600	1100	3333.33	ND	100	40 - 109			J
Diethyl phthalate	2813.33	6600	950	3333.33	ND	84.4	38 - 108			J
Dimethyl phthalate	2840.00	6600	920	3333.33	ND	85.2	38 - 106			J
Fluoranthene	2640.00	6600	950	3333.33	ND	79.2	37 - 118			J
Fluorene	2893.33	6600	980	3333.33	ND	86.8	38 - 114			J
Hexachlorobenzene	3226.67	6600	820	3333.33	ND	96.8	35 - 115			J
Hexachlorobutadiene	2933.33	13000	1200	3333.33	ND	88.0	31 - 101			J
Hexachlorocyclopentadiene	2886.67	13000	1300	3333.33	ND	86.6	28 - 99			J
Hexachloroethane	2793.33	6600	1400	3333.33	ND	83.8	27 - 87			J
Indeno(1,2,3-cd)pyrene	2520.00	6600	870	3333.33	ND	75.6	29 - 125			J
Isophorone	2340.00	6600	1100	3333.33	ND	70.2	26 - 97			J
N-Nitroso-di-n propylamine	2506.67	6600	1300	3333.33	ND	75.2	27 - 97			J



Certificate of Analysis

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17781 Cowan Street
Irvine , CA 92614

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Semivolatile Organic Compounds by EPA 8270C - 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 B9E0909 - MSSEMI_S (continued)

Matrix Spike (B9E0909-MS1) - Continued

Source: 1902114-25

Prepared: 5/28/2019 Analyzed: 5/29/2019

N-Nitrosodiphenylamine	2686.67	6600	960	3333.33	ND	80.6	19 - 123			J
Naphthalene	2733.33	6600	1200	3333.33	ND	82.0	26 - 103			J
Nitrobenzene	2753.33	6600	1300	3333.33	ND	82.6	24 - 99			J
Pentachlorophenol	ND	33000	3700	3333.33	ND	NR	13 - 130			M2
Phenanthrene	2966.67	6600	920	3333.33	ND	89.0	40 - 116			J
Phenol	ND	6600	2600	3333.33	ND	NR	23 - 96			M2
Pyrene	2726.67	6600	1100	3333.33	ND	81.8	36 - 122			J
Pyridine	ND	33000	5300	3333.33	ND	NR	7 - 87			M2

Surrogate: 1,2-Dichlorobenzene-d	2407			3333.33		72.2	16 - 87			
Surrogate: 2,4,6-Tribromophenol	2547			3325.00		76.6	0 - 148			
Surrogate: 2-Chlorophenol-d4	2313			3325.00		69.6	17 - 96			
Surrogate: 2-Fluorobiphenyl	2840			3333.33		85.2	16 - 107			
Surrogate: 2-Fluorophenol	2073			3325.00		62.4	16 - 86			
Surrogate: 4-Terphenyl-d14	2567			3333.33		77.0	3 - 156			
Surrogate: Nitrobenzene-d5	2333			3333.33		70.0	16 - 99			
Surrogate: Phenol-d6	2173			3325.00		65.4	17 - 90			

Matrix Spike Dup (B9E0909-MSD1)

Source: 1902114-25

Prepared: 5/28/2019 Analyzed: 5/29/2019

1,2,4-Trichlorobenzene	2786.67	6600	1400	3333.33	ND	83.6	27 - 96	7.82	20	J
1,2-Dichlorobenzene	2526.67	6600	1200	3333.33	ND	75.8	25 - 87	8.34	20	J
1,3-Dichlorobenzene	2600.00	6600	1300	3333.33	ND	78.0	24 - 84	2.07	20	J
1,4-Dichlorobenzene	2473.33	6600	1200	3333.33	ND	74.2	25 - 85	6.01	20	J
2,4,5-Trichlorophenol	2660.00	6600	1200	3333.33	ND	79.8	29 - 122	7.01	20	J
2,4,6-Trichlorophenol	ND	6600	4500	3333.33	ND	NR	21 - 127	NR	20	M2
2,4-Dichlorophenol	ND	33000	2300	3333.33	ND	NR	24 - 115	NR	20	M2
2,4-Dimethylphenol	2453.33	6600	2400	3333.33	ND	73.6	19 - 124	3.47	20	J
2,4-Dinitrophenol	ND	33000	1700	3333.33	ND	NR	0 - 118	NR	20	
2,4-Dinitrotoluene	2293.33	6600	910	3333.33	ND	68.8	35 - 112	5.65	20	J
2,6-Dinitrotoluene	2513.33	6600	980	3333.33	ND	75.4	15 - 137	2.88	20	J
2-Chloronaphthalene	2993.33	6600	1200	3333.33	ND	89.8	35 - 95	6.47	20	J
2-Chlorophenol	ND	6600	2400	3333.33	ND	NR	22 - 100	NR	20	M2
2-Methylnaphthalene	2886.67	6600	1300	3333.33	ND	86.6	17 - 123	2.73	20	J
2-Methylphenol	2413.33	6600	1300	3333.33	ND	72.4	28 - 100	2.19	20	J
2-Nitroaniline	ND	33000	4100	3333.33	ND	NR	34 - 120	NR	20	M2
2-Nitrophenol	2173.33	6600	2100	3333.33	ND	65.2	22 - 116	3.02	20	J
3,3'-Dichlorobenzidine	ND	13000	5600	3333.33	ND	NR	9 - 117	NR	20	M2
3-Nitroaniline	2246.67	33000	890	3333.33	ND	67.4	29 - 116	6.60	20	J
4,6-Dinitro-2-methylphenol	ND	33000	6000	3333.33	ND	NR	21 - 126	NR	20	M2
4-Bromophenyl-phenylether	2820.00	6600	990	3333.33	ND	84.6	36 - 108	5.07	20	J
4-Chloro-3-methylphenol	2193.33	13000	2100	3333.33	ND	65.8	32 - 116	5.04	20	J
4-Chloroaniline	2566.67	13000	1100	3333.33	ND	77.0	22 - 115	4.07	20	J



Certificate of Analysis

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17781 Cowan Street
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Reported : 05/30/2019

Semivolatile Organic Compounds by EPA 8270C - 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 B9E0909 - MSSEMI_S (continued)

Matrix Spike Dup (B9E0909-MSD1) - Continued

Source: 1902114-25

Prepared: 5/28/2019 Analyzed: 5/29/2019

4-Chlorophenyl-phenylether	3080.00	6600	950	3333.33	ND	92.4	36 - 104	1.29	20	J
4-Methylphenol	2506.67	6600	1300	3333.33	ND	75.2	32 - 98	4.17	20	J
4-Nitroaniline	ND	33000	5800	3333.33	ND	NR	37 - 116	NR	20	M2
4-Nitrophenol	ND	6600	3000	3333.33	ND	NR	0 - 148	NR	20	
Acenaphthene	2766.67	6600	970	3333.33	ND	83.0	35 - 108	5.16	20	J
Acenaphthylene	2720.00	6600	1000	3333.33	ND	81.6	35 - 108	4.55	20	J
Anthracene	2566.67	6600	970	3333.33	ND	77.0	40 - 114	6.78	20	J
Benzidine (M)	ND	33000	29000	3333.33	ND	NR	0 - 161	NR	20	
Benzo(a)anthracene	2673.33	6600	780	3333.33	ND	80.2	42 - 113	1.24	20	J
Benzo(a)pyrene	2333.33	6600	910	3333.33	ND	70.0	38 - 117	3.92	20	J
Benzo(b)fluoranthene	2540.00	6600	1100	3333.33	ND	76.2	35 - 117	4.11	20	J
Benzo(g,h,i)perylene	2506.67	6600	750	3333.33	ND	75.2	32 - 121	8.16	20	J
Benzo(k)fluoranthene	2213.33	6600	1000	3333.33	ND	66.4	34 - 119	7.26	20	J
Benzoic acid	ND	33000	18000	3333.33	ND	NR	19 - 133	NR	20	M2
Benzyl alcohol	2440.00	13000	1300	3333.33	ND	73.2	24 - 102	2.70	20	J
bis(2-chloroethoxy)methane	2553.33	6600	1200	3333.33	ND	76.6	27 - 88	3.84	20	J
bis(2-Chloroethyl)ether	2353.33	6600	1100	3333.33	ND	70.6	26 - 82	9.45	20	J
bis(2-chloroisopropyl)ether	2820.00	6600	1300	3333.33	ND	84.6	15 - 92	1.64	20	J
bis(2-ethylhexyl)phthalate	1733.33	6600	1700	3333.33	ND	52.0	21 - 128	2.73	20	J
Butylbenzylphthalate	ND	6600	4900	3333.33	ND	NR	14 - 136	NR	20	M2
Chrysene	2633.33	6600	860	3333.33	ND	79.0	37 - 113	8.25	20	J
Di-n-butylphthalate	ND	6600	4500	3333.33	ND	NR	40 - 112	NR	20	M2
Di-n-octylphthalate	1533.33	6600	960	3333.33	ND	46.0	8 - 137	13.0	20	J
Dibenz(a,h)anthracene	2246.67	6600	870	3333.33	ND	67.4	29 - 128	5.20	20	J
Dibenzofuran	3233.33	6600	1100	3333.33	ND	97.0	40 - 109	3.25	20	J
Diethyl phthalate	2606.67	6600	950	3333.33	ND	78.2	38 - 108	7.63	20	J
Dimethyl phthalate	2733.33	6600	920	3333.33	ND	82.0	38 - 106	3.83	20	J
Fluoranthene	2486.67	6600	950	3333.33	ND	74.6	37 - 118	5.98	20	J
Fluorene	2846.67	6600	980	3333.33	ND	85.4	38 - 114	1.63	20	J
Hexachlorobenzene	3113.33	6600	820	3333.33	ND	93.4	35 - 115	3.58	20	J
Hexachlorobutadiene	2846.67	13000	1200	3333.33	ND	85.4	31 - 101	3.00	20	J
Hexachlorocyclopentadiene	2666.67	13000	1300	3333.33	ND	80.0	28 - 99	7.92	20	J
Hexachloroethane	2573.33	6600	1400	3333.33	ND	77.2	27 - 87	8.20	20	J
Indeno(1,2,3-cd)pyrene	2380.00	6600	870	3333.33	ND	71.4	29 - 125	5.71	20	J
Isophorone	2213.33	6600	1100	3333.33	ND	66.4	26 - 97	5.56	20	J
N-Nitroso-di-n propylamine	2366.67	6600	1300	3333.33	ND	71.0	27 - 97	5.75	20	J
N-Nitrosodiphenylamine	2500.00	6600	960	3333.33	ND	75.0	19 - 123	7.20	20	J
Naphthalene	2653.33	6600	1200	3333.33	ND	79.6	26 - 103	2.97	20	J
Nitrobenzene	2686.67	6600	1300	3333.33	ND	80.6	24 - 99	2.45	20	J
Pentachlorophenol	ND	33000	3700	3333.33	ND	NR	13 - 130	NR	20	M2
Phenanthrene	2633.33	6600	920	3333.33	ND	79.0	40 - 116	11.9	20	J
Phenol	ND	6600	2600	3333.33	ND	NR	23 - 96	NR	20	M2



Certificate of Analysis

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17781 Cowan Street

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Reported : 05/30/2019

Semivolatile Organic Compounds by EPA 8270C - 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 B9E0909 - MSSEMI_S (continued)

Matrix Spike Dup (B9E0909-MSD1) - Continued

Source: 1902114-25

Prepared: 5/28/2019 Analyzed: 5/29/2019

Pyrene	2593.33	6600	1100	3333.33	ND	77.8	36 - 122	5.01	20	J
Pyridine	ND	33000	5300	3333.33	ND	NR	7 - 87	NR	20	M2
Surrogate: 1,2-Dichlorobenzene-d	2467			3333.33		74.0	16 - 87			
Surrogate: 2,4,6-Tribromophenol	2793			3325.00		84.0	0 - 148			
Surrogate: 2-Chlorophenol-d4	2373			3325.00		71.4	17 - 96			
Surrogate: 2-Fluorobiphenyl	2813			3333.33		84.4	16 - 107			
Surrogate: 2-Fluorophenol	2047			3325.00		61.6	16 - 86			
Surrogate: 4-Terphenyl-d14	2500			3333.33		75.0	3 - 156			
Surrogate: Nitrobenzene-d5	2320			3333.33		69.6	16 - 99			
Surrogate: Phenol-d6	2233			3325.00		67.2	17 - 90			



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Irvine, CA 92614

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Report To : Ross Surrency

Reported : 05/30/2019

Notes and Definitions

S4	Surrogate was diluted out.
S10	Surrogate recovery was outside of laboratory acceptance limit due to possible matrix interference.
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.

Instruction: Complete all shaded areas.

Company: Leighton Consulting		Address: 17781 Cowan		Tel: 949-250-1421	
City: Irvine		State: CA		Fax:	
SEND REPORT TO:		SEND INVOICE TO:		EDD	
Attn: Ross Surrency	Email: rsurrency@leightongroup.com	Attn: Accounts Payable		<input type="radio"/> Excel	
Company: Leighton Consulting		Company: Leighton Group		<input type="radio"/> EDF	
Address: 17781 Cowan		Address: 17781 Cowan		<input type="radio"/> Legal	
City: Irvine	State: CA	Zip: 92614	State: CA	Zip: 92614	<input type="radio"/> RWQCB
			<input type="radio"/> Level IV		
			<input type="checkbox"/> _____		
			QA/QC		
			<input checked="" type="checkbox"/> Routine		
			<input type="checkbox"/> Caltrans		
			<input type="checkbox"/> Equis		
			<input type="checkbox"/> _____		

[illegible]

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 days... 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.
 - Hard copy records will be disposed of after 5(5) years from report date.
 - Hard copy records will be disposed of after 45 calendar days from report date.
 - Liquid & Solid Samples: Complementary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
 - Air samples: Complementary 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 fee 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: 5-24-14	Time: 1031	Received by: (Signature and Printed Name)	Date: 5-24-14	Time: 1031
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.

Sabrina Gonzalez

Printed Name

Signature

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040



Instruction: Complete all shaded areas.

Method of Transport		For Laboratory Use Only				ATLCOG Ver:20180321			
		Sample Conditions Upon Receipt							
		Condition		Y	N	Condition		Y	N
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. # OF SAMPLES MATCH	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> GSD		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP deg C:	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other:	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

Company: Leighton Consulting		Address: 17781 Cowan		Tel: 949-250-1421	
City: Irvine		State: CA		Zip: 92614	
Fax:					
SEND REPORT TO:		SEND INVOICE TO:			
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		EDD <input type="radio"/> Excel <input type="radio"/> EDF <input type="radio"/> Equis <input type="radio"/>	
Company: Leighton Consulting		Attn: Accounts Payable		Email: acctpayable@leightongroup.com	
Address: 17781 Cowan		Company: Leighton Group			
City: Irvine		Address: 17781 Cowan			
State: CA		Zip: 92614			
City: Irvine		State: CA		Zip: 92614	
				QA/QC <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RWQCB <input type="checkbox"/> Level IV <input type="checkbox"/>	

[illegible]


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 - 300K Surcharge SAME BUSINESS DAY (if received by 9:00 AM)
TAT = 1 - 100K Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
TAT = 2 - 50K Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
TAT = 3 - 30K Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
TAT = 4 - 20K Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
TAT = 5 - NO SURCHARGE 5th BUSINESS DAY (COB 5:00 PM)
Weekend, holiday, after-hours work — ask for quote.
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. 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.
6. Hard copy reports will be disposed of after 45 calendar days from report date.
7. Electronic reports 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 processed EDD.
10. Rush T/C/P/ST/C 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)  Sabrina Gonzalez	Date: 5-24-19	Time: 1031	Received by: (Signature and Printed Name)  Sabrina Gonzalez	Date: 5-24-19	Time: 1031
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.

Sabrina Gonzalez

Printed Name

 Signature

CHAIN OF CUSTODY RECORD

Page 3 of 3

Instruction: Complete all shaded areas.

Method of Transport		Sample Conditions Upon Receipt	
Client	ATL	Condition	Y N
FedEx	OnTrac	1. CHILLED	<input type="checkbox"/>
GSO		2. HEADSPACE (NOA)	<input type="checkbox"/>
Other:		3. CONTAINER INTACT	<input type="checkbox"/>
		4. SEALED	<input type="checkbox"/>
		5. # OF SAMPLES MATCH COC	<input type="checkbox"/>
		6. PRESERVED	<input type="checkbox"/>
		7. COOLER TEMP, deg. C	<input type="checkbox"/>

Company: Leighton Consulting		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Tel: 949-250-1421		Fax:	
Attn: Ross Surrency		Email: rsurrency@leightongroup.com		SEND REPORT TO:		SEND INVOICE TO:		State: CA		Zip: 92614		Fax:	
Company: Leighton Consulting		Accounts Payable		Email: accpayable@leightongroup.com		EDD		State: CA		Zip: 92614		Fax:	
Address: 17781 Cowan		Leighton Group		Company:		EDD		State: CA		Zip: 92614		Fax:	
City: Irvine		Irvine		Address: 17781 Cowan		City: Irvine		State: CA		Zip: 92614		Fax:	

Project Name:		Quote #:		Special Instructions/Comments:		Sample Description		Requested Analysis		Sample Matrix		Turnaround Time (TAT)		Quantity		Remarks	
ITEM	Laboratory ID (For Lab Use Only)	Sample ID / Location	Date	Time	Sample ID / Location	Date	Time	8015 (GRO)	8015 (DRO)	8010 / 7000 (Title 22 Metals)	8081 (Organochlorine Pesticides)	8270 (Semi-volatiles)	8082 (PCBs)	Select Analysis	TPH DRO and GRO 8015M	8260 VOCs + GRO	Hold
1	1702114 - 20	WP11-0.5	5-24-19	0845													
2	-21	WP10-1.5		0830													
3	-22	WP10-1.5		0850													
4	-23	WP12-0.5		0852													
5	-24	WP12-1.5		0854													
6	-25	WP13-0.5		0900													
7	-26	WP13-1.5		0903													
8	-27	WP14-0.5		0905													
9	-28	WP14-1.5		0910													
10																	

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday, Saturday 8:00 AM to 12:00 PM.		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.	
2. Samples submitted AFTER 3:00 PM are considered received the following business day at 8:00 AM.		7. Electronic records maintained for five (5) years from report date.	
3. The following turnaround time conditions apply:		8. Hard copy reports will be disposed of after 45 calendar days from report date.	
TAT = 0: 300% Surcharge SAME BUSINESS DAY (if received by 9:00 AM)		9. Storage and Report Fees:	
TAT = 1: 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)		- 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.	
TAT = 2: 50% Surcharge 2ND 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 = 3: 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)		- Hard copy and regenerated reports/EDDs: \$17.50 per hard copy report requested; \$50.00 per sample.	
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.			

Relinquished by: (Signature and Printed Name)		Date: 5/24/19		Time: 10:31	
Relinquished by: (Signature and Printed Name)		Date: 5/24/19		Time: 10:31	
Relinquished by: (Signature and Printed Name)		Date: 5/24/19		Time: 10:31	
Relinquished by: (Signature and Printed Name)		Date: 5/24/19		Time: 10:31	



June 05, 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 : 1902114
Client Reference : LAUSD - Jordan High School, 11640.011

Enclosed are the results for sample(s) received on May, 24 2019 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 'Edgar Caballero', with a small 'for' written below it.

Edgar Caballero
President & 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 - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP1-1.5	1902114-02	Soil	5/24/19 7:15	5/24/19 10:31
WP2-1.5	1902114-04	Soil	5/24/19 7:25	5/24/19 10:31
WP4-1.5	1902114-08	Soil	5/24/19 7:47	5/24/19 10:31
WP5-1.5	1902114-11	Soil	5/24/19 7:55	5/24/19 10:31
WP6-1.5	1902114-12	Soil	5/24/19 8:07	5/24/19 10:31
WP7-1.5	1902114-14	Soil	5/24/19 8:13	5/24/19 10:31

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.



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17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

DETECTION SUMMARY

Client Sample ID WP1-1.5

Lab ID: 1902114-02

Total Metals by ICP-MS EPA 6020

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	47	1.0	0.04	20	B9F0051	06/04/19 08:07	06/05/19 12:45	D1



Certificate of Analysis

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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

DETECTION SUMMARY

Client Sample ID WP2-1.5

Lab ID: 1902114-04

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
ORO	75	2.0	2.0	2	B9F0040	06/03/19 10:30	06/04/19 21:42	



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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

DETECTION SUMMARY

Client Sample ID WP4-1.5

Lab ID: 1902114-08

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	120	10	10	10	B9F0040	06/03/19 10:30	06/05/19 00:51	
ORO	580	10	10	10	B9F0040	06/03/19 10:30	06/05/19 00:51	



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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

DETECTION SUMMARY

Client Sample ID WP5-1.5

Lab ID: 1902114-11

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	21	2.0	2.0	2	B9F0040	06/03/19 10:30	06/04/19 21:59	
ORO	87	2.0	2.0	2	B9F0040	06/03/19 10:30	06/04/19 21:59	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

DETECTION SUMMARY

Client Sample ID WP6-1.5

Lab ID: 1902114-12

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	120	20	20	20	B9F0040	06/03/19 10:30	06/05/19 01:09	
ORO	810	20	20	20	B9F0040	06/03/19 10:30	06/05/19 01:09	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

DETECTION SUMMARY

Client Sample ID WP7-1.5

Lab ID: 1902114-14

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	42	5.0	5.0	5	B9F0040	06/03/19 10:30	06/04/19 22:51	
ORO	210	5.0	5.0	5	B9F0040	06/03/19 10:30	06/04/19 22:51	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

Client Sample ID WP1-1.5

Lab ID: 1902114-02

Total Metals by ICP-MS EPA 6020

Analyst: GO

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	47	1.0	0.04	20	B9F0051	06/04/2019	06/05/19 12:45	D1



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

Client Sample ID WP2-1.5

Lab ID: 1902114-04

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
ORO	75	2.0	2	B9F0040	06/03/2019	06/04/19 21:42	
<i>Surrogate: p-Terphenyl</i>	<i>90.8 %</i>	<i>34 - 158</i>		<i>B9F0040</i>	<i>06/03/2019</i>	<i>06/04/19 21:42</i>	



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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

Client Sample ID WP4-1.5

Lab ID: 1902114-08

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	120	10	10	B9F0040	06/03/2019	06/05/19 00:51	
ORO	580	10	10	B9F0040	06/03/2019	06/05/19 00:51	
<i>Surrogate: p-Terphenyl</i>	<i>90.0 %</i>	<i>34 - 158</i>		B9F0040	06/03/2019	<i>06/05/19 00:51</i>	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

Client Sample ID WP5-1.5

Lab ID: 1902114-11

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	21	2.0	2	B9F0040	06/03/2019	06/04/19 21:59	
ORO	87	2.0	2	B9F0040	06/03/2019	06/04/19 21:59	
<i>Surrogate: p-Terphenyl</i>	<i>91.3 %</i>	<i>34 - 158</i>		B9F0040	06/03/2019	<i>06/04/19 21:59</i>	



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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

Client Sample ID WP6-1.5

Lab ID: 1902114-12

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	120	20	20	B9F0040	06/03/2019	06/05/19 01:09	
ORO	810	20	20	B9F0040	06/03/2019	06/05/19 01:09	
<i>Surrogate: p-Terphenyl</i>	<i>66.7 %</i>	<i>34 - 158</i>		B9F0040	06/03/2019	<i>06/05/19 01:09</i>	



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17781 Cowan Street

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Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

Client Sample ID WP7-1.5

Lab ID: 1902114-14

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	42	5.0	5	B9F0040	06/03/2019	06/04/19 22:51	
ORO	210	5.0	5	B9F0040	06/03/2019	06/04/19 22:51	
<i>Surrogate: p-Terphenyl</i>	<i>83.7 %</i>	<i>34 - 158</i>		B9F0040	06/03/2019	<i>06/04/19 22:51</i>	



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Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 06/05/2019

QUALITY CONTROL SECTION

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
Batch B9F0051 - EPA 3050B MS_S										
Blank (B9F0051-BLK1)					Prepared: 6/4/2019 Analyzed: 6/5/2019					
Arsenic	0.479797	1.0	0.01							J
LCS (B9F0051-BS1)					Prepared: 6/4/2019 Analyzed: 6/5/2019					
Arsenic	4.68703	1.0	0.01	5.00000		93.7	70 - 130			
Matrix Spike (B9F0051-MS1)					Source: 1902114-02 Prepared: 6/4/2019 Analyzed: 6/5/2019					
Arsenic	52.6966	1.0	0.04	5.00000	47.3374	107	75 - 125			
Matrix Spike Dup (B9F0051-MSD1)					Source: 1902114-02 Prepared: 6/4/2019 Analyzed: 6/5/2019					
Arsenic	46.1897	1.0	0.04	5.00000	47.3374	-23.0	75 - 125	13.2	20	M1



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Report To : Ross Surrency

Reported : 06/05/2019

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 B9F0051 - EPA 3050B MS_S

Post Spike (B9F0051-PS1)

Source: 1902114-02

Prepared: 6/4/2019 Analyzed: 6/5/2019

Arsenic	28.2714		5.00000	23.6687	92.1	75 - 125			
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17781 Cowan Street
Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 06/05/2019

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
Batch B9F0040 - GCSEMI_DRO_LL_S									
Blank (B9F0040-BLK1)					Prepared: 6/3/2019 Analyzed: 6/5/2019				
DRO	ND	1.0	1.0						
ORO	ND	1.0	1.0						
<i>Surrogate: p-Terphenyl</i>	2.901			2.66667		109	34 - 158		
LCS (B9F0040-BS1)					Prepared: 6/3/2019 Analyzed: 6/4/2019				
DRO	32.5653	1.0	1.0	33.3333		97.7	47 - 152		
<i>Surrogate: p-Terphenyl</i>	3.423			2.66667		128	34 - 158		
Duplicate (B9F0040-DUP1)					Source: 1902114-04 Prepared: 6/3/2019 Analyzed: 6/4/2019				
DRO	6.59067	1.0	1.0		21.7833		107	20	R2
<i>Surrogate: p-Terphenyl</i>	2.001			2.66667		75.0	34 - 158		
Matrix Spike (B9F0040-MS1)					Source: 1902158-BL Prepared: 6/3/2019 Analyzed: 6/4/2019				
DRO	128.970	5.0	5.0	33.3333	91.6550	112	34 - 130		
<i>Surrogate: p-Terphenyl</i>	2.510			2.66667		94.1	34 - 158		
Matrix Spike (B9F0040-MS2)					Source: 1902114-08 Prepared: 6/3/2019 Analyzed: 6/5/2019				
DRO	203.687	10	10	33.3333	117.300	259	34 - 130		M2
<i>Surrogate: p-Terphenyl</i>	2.407			2.66667		90.2	34 - 158		
Matrix Spike Dup (B9F0040-MSD1)					Source: 1902158-BL Prepared: 6/3/2019 Analyzed: 6/4/2019				
DRO	121.163	5.0	5.0	33.3333	91.6550	88.5	34 - 130	6.24	20
<i>Surrogate: p-Terphenyl</i>	2.235			2.66667		83.8	34 - 158		
Matrix Spike Dup (B9F0040-MSD2)					Source: 1902114-08 Prepared: 6/3/2019 Analyzed: 6/5/2019				
DRO	155.217	10	10	33.3333	117.300	114	34 - 130	27.0	20 R2
<i>Surrogate: p-Terphenyl</i>	2.057			2.66667		77.1	34 - 158		



Certificate of Analysis

Leighton Consulting, Inc.

17781 Cowan Street

Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/05/2019

Notes and Definitions

R2	RPD value outside acceptance criteria due to possible matrix interference.
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.
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.

Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Friday, May 31, 2019 10:03 AM
To: Carmen Aguila
Cc: customer.relations@atlglobal.com
Subject: RE: Results- LAUSD - Jordan High School, 11640.011, ATL# 1902114

Carmen,

Please analyze the following samples that were marked as “hold” on the COC on a 3-day TAT:

WP1-1.5 for arsenic by 6020
WP2-1.5 for TPH-ORO by 8015B
WP4-1.5 for TPH-DRO, TPH-ORO by 8015B
WP5-1.5 for TPH-DRO, TPH-ORO by 8015B
WP6-1.5 for TPH-DRO, TPH-ORO by 8015B
WP7-1.5 for TPH-DRO, TPH-ORO by 8015B

Thanks,

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc.

17781 Cowan, Irvine, CA 92614
(949) 681-4264 – Direct
(949) 880-4439 – Cell

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From: Carmen Aguila [mailto:Carmen.Aguila@atlglobal.com]
Sent: Thursday, May 30, 2019 6:04 PM
To: Ross Surrency
Cc: customer.relations@atlglobal.com
Subject: Results- LAUSD - Jordan High School, 11640.011, ATL# 1902114

Good evening Ross,

Please find your results for the above project attached. If I can further assist, please let me know.

Thank you,



June 07, 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 : 1902114
Client Reference : LAUSD - Jordan High School, 11640.011

Enclosed are the results for sample(s) received on May 24, 2019 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 "Edgar Caballero", with a small "EC" monogram below the main signature.

Edgar Caballero
President & 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 - Jordan High School, 11640.011
Report To : Ross Surrency
Reported : 06/07/2019

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP2-1.5	1902114-04	Soil	5/24/19 7:25	5/24/19 10:31

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 WP2-1.5

Lab ID: 1902114-04

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	22	2.0	2	B9F0040	06/03/2019	06/04/19 21:42	



Certificate of Analysis

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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/07/2019

Client Sample ID WP2-1.5

Lab ID: 1902114-04

Diesel Range Organics by EPA 8015B

Analyst: HT

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	22	2.0	2	B9F0040	06/03/2019	06/04/19 21:42	
<i>Surrogate: p-Terphenyl</i>	<i>90.8 %</i>	<i>34 - 158</i>		B9F0040	06/03/2019	<i>06/04/19 21:42</i>	



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Project Number : LAUSD - Jordan High School, 11640.011
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QUALITY CONTROL SECTION

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B9F0040 - GCSEMI_DRO_LL_S										
Blank (B9F0040-BLK1)					Prepared: 6/3/2019 Analyzed: 6/5/2019					
DRO	ND	1.0	1.0							
ORO	ND	1.0	1.0							
<i>Surrogate: p-Terphenyl</i>	2.901			2.66667		109	34 - 158			
LCS (B9F0040-BS1)					Prepared: 6/3/2019 Analyzed: 6/4/2019					
DRO	32.5653	1.0	1.0	33.3333		97.7	47 - 152			
<i>Surrogate: p-Terphenyl</i>	3.423			2.66667		128	34 - 158			
Duplicate (B9F0040-DUP1)					Source: 1902114-04 Prepared: 6/3/2019 Analyzed: 6/4/2019					
DRO	6.59067	1.0	1.0		21.7833			107	20	R2
<i>Surrogate: p-Terphenyl</i>	2.001			2.66667		75.0	34 - 158			
Matrix Spike (B9F0040-MS1)					Source: 1902158-BL Prepared: 6/3/2019 Analyzed: 6/4/2019					
DRO	128.970	5.0	5.0	33.3333	91.6550	112	34 - 130			
<i>Surrogate: p-Terphenyl</i>	2.510			2.66667		94.1	34 - 158			
Matrix Spike (B9F0040-MS2)					Source: 1902114-08 Prepared: 6/3/2019 Analyzed: 6/5/2019					
DRO	203.687	10	10	33.3333	117.300	259	34 - 130			M2
<i>Surrogate: p-Terphenyl</i>	2.407			2.66667		90.2	34 - 158			
Matrix Spike Dup (B9F0040-MSD1)					Source: 1902158-BL Prepared: 6/3/2019 Analyzed: 6/4/2019					
DRO	121.163	5.0	5.0	33.3333	91.6550	88.5	34 - 130	6.24	20	
<i>Surrogate: p-Terphenyl</i>	2.235			2.66667		83.8	34 - 158			
Matrix Spike Dup (B9F0040-MSD2)					Source: 1902114-08 Prepared: 6/3/2019 Analyzed: 6/5/2019					
DRO	155.217	10	10	33.3333	117.300	114	34 - 130	27.0	20	R2
<i>Surrogate: p-Terphenyl</i>	2.057			2.66667		77.1	34 - 158			



Certificate of Analysis

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Irvine , CA 92614

Project Number : LAUSD - Jordan High School, 11640.011

Report To : Ross Surrency

Reported : 06/07/2019

Notes and Definitions

R2	RPD value outside acceptance criteria due to possible matrix interference.
M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
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:

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Carmen Aguila

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Thursday, June 6, 2019 10:09 AM
To: Carmen Aguila
Subject: RE: Add'l Results- LAUSD - Jordan High School, 11640.011, ATL# 1902114

Follow Up Flag: Follow up
Flag Status: Flagged

Carmen,

Would it be possible to analyze sample WP2-1.5 for TPH-DRO? Or is it past the holding time?

Ross Surrency, PG
Associate Geologist

Leighton Consulting, Inc.

17781 Cowan, Irvine, CA 92614

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From: Carmen Aguila [mailto:Carmen.Aguila@atlglobal.com]
Sent: Wednesday, June 05, 2019 5:17 PM
To: Ross Surrency
Cc: customer.relations@atlglobal.com
Subject: Add'l Results- LAUSD - Jordan High School, 11640.011, ATL# 1902114

Good afternoon Ross,

Please find your results for the above project attached. If I can further assist, please let me know.

Thank you,
Carmen

From: Ross Surrency <rsurrency@leightongroup.com>
Sent: Friday, May 31, 2019 10:03 AM
To: Carmen Aguila <Carmen.Aguila@atlglobal.com>
Cc: customer.relations@atlglobal.com
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Thanks,

Ross Surrency, PG
Associate Geologist

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Sent: Thursday, May 30, 2019 6:04 PM
To: Ross Surrency
Cc: customer.relations@atlglobal.com
Subject: Results- LAUSD - Jordan High School, 11640.011, ATL# 1902114

Good evening Ross,

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Thank you,



Carmen Aguila | Project Manager
ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Avenue, Signal Hill CA 90755
O: 562.989.4045 ext 245 | F: 562.989-6348 | M: 562.715.8770
<http://www.atlglobal.com>

Laboratory Excellence Defined

Advanced Technology Laboratories is a full-service environmental lab providing organic and inorganic analyses of soil, water, wastewater, storm water and hazardous waste samples. ATL is accredited by the State of California, NELAP and State of Oregon (Air) and holds various SBE, DBE and MBE certificates and a USDA soil permit. ATL takes pride in providing our customers with quick turnaround time, excellent customer service and defensible data while offering very competitive rates. *Advanced Technology Labs - Your Partner for Quality Environmental Testing*
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