PRELIMINARY ENVIRONMENTAL ASSESSMENT EQUIVALENT REPORT-FINAL

APRIL 2016

JAMES A. FOSHAY LEARNING CENTER
3751 S. Harvard Boulevard
Los Angeles, California 90018

TRC Project Number: 231058

Prepared For:
Los Angeles Unified School District
Office of Environmental Health and Safety
333 S. Beaudry Avenue, 21st Floor
Los Angeles, California 90017

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1.0 INTRODUCTION

TRC Solutions, Inc. (TRC) on behalf of the Los Angeles Unified School District, Office of Environmental Health and Safety (LAUSD-OEHS), has prepared this Preliminary Environmental Assessment (PEA) Equivalent Report for the James A. Foshay Learning Center (FLC) located at 3751 S. Harvard Boulevard, Los Angeles, California (Site, Figure 1). The FLC is scheduled to complete modernization and construction activities on several Site structures and features. In preparation for the school improvements and renovations, this PEA has been completed to investigate recognized environmental conditions (RECs) identified in a Phase I Environmental Site Assessment (Phase I ESA) completed by Parsons in March 2014.

The PEA field investigation, laboratory analysis program, and screening level human health and ecological risk assessment were conducted in accordance with the PEA Work Plan dated March 27, 2015. The PEA Work Plan and PEA Report were prepared following the guidelines of the California Environmental Protection Agency (Cal/EPA) and Department of Toxic Substances Control (DTSC), as detailed in the PEA Guidance Manual (January 1994, Interim Final – Revised October 2013).

This report also documents the excavation and off-site disposal of soil containing elevated concentrations of lead and arsenic.

1.1 PEA Objectives

The FLC is currently a fully operational LAUSD school, which is scheduled to undergo modernization and construction activities. The Site is approximately 8.6-acres and is comprised of twenty-two (22) buildings. Of these, eleven (11) are “permanent” and the remainder are modular or portable. The proposed modernization of the campus will include:

- Elimination of the modular/portable buildings,
- Removal and replacement of one building,
- Removal of the music and food services buildings and replacement with one building,
- Removal and replacement of the lunch shelter, and
- Reconfiguration of the parking lots, playfields, hardcourts, and common space areas.

In preparation and prior to the modernization and construction activities, the LAUSD-OEHS would like to identify any environmental issues in the project area. A Proposed Site Plan presenting the modernization and final layout is presented in Figure 2. A Site Map of the entire FLC with the proposed working area limits defined is presented in Figure 3. As previously mentioned, a Phase I ESA was completed by Parsons in March 2014 that identified certain potential environmental issues. The purpose of the PEA is to identify if any of the potential issues will need to be mitigated either prior to or during the modernization and renovation effort. The primary objectives of the PEA are as follows:

1) Establishing through a field sampling and analysis program the possible presence of potential contaminants in near surface soil and soil gases related to RECs identified in the Phase 1 ESA and in consideration of historical use of the Site and potential impacts emanating from offsite sources.

2) Data derived from the proposed investigation will be evaluated with regard to the following considerations:

   - Evaluate the potential presence of constituents of potential concern in near surface soil in order to determine whether special consideration with regard to future soil handling and disposal during the modernization and construction activities is warranted,
   - Determine if the concentrations of constituents of potential concern in near surface soil exceed health-based screening criteria (residential land-use scenario) for protection of students, faculty, staff, and visitors at the Site,
   - Evaluate the potential existence of a vapor encroachment condition related to the former service station property located adjacent to the southwest corner of the property, and
   - If necessary, determine if further investigation, monitoring, and/or remedial actions are necessary to further define, monitor, or remove contaminants as part of the identified RECs

Based on information developed during the PEA and the conservative human and ecological risk evaluation using the DTSC's PEA Guidance Manual (January 1994, Interim Final – Revised October 2013), the LAUSD-OEHS will then make an informed decision regarding potential risks posed by the Site. Possible outcomes of the PEA decision include

- Issuance of a "No Further Action" finding if the Site is found not to be significantly impacted and risks to human health and the environment are found to be within acceptable levels based on the conservative screening level risk assessment; or
- Issuance of a "Need for Housekeeping Action" finding if contamination is found and/or soil removal is/will be completed to reduce exposure to contamination discovered during the PEA process;
- Necessity for further investigation through Supplemental Site Investigation (SSI) if the PEA fails to determine the limits of contamination; or
- Need to prepare and complete a Removal Action Workplan (RAW) if significant impacts by hazardous substances release(s) are found.

1.2 Scope of Work

The scope of work implemented to prepare this PEA included:

- Scoping meetings and discussions with LAUSD-OEHS representatives;
- Preparing draft and final PEA Work Plan documents;
- Preparing and implementing public notifications;
- Researching available Site background information regarding former and current land use from the previously conducted Phase I ESA;
- Implementing field and laboratory data collection and evaluation to assess environmental conditions at the Site;
- Reviewing a Soil Removal Report;
- Preparing a screening level human health and ecological risk assessment; and
- Preparing this PEA Report.

Numerous information sources were reviewed as part of the background research for development of the PEA Report. However, the Phase I ESA prepared by Parsons presents the primary source of information utilized in the PEA Report development. These sources were reviewed to develop an understanding of current and past land uses and practices that may have involved the handling, use, storage, and/or disposal of hazardous substances or wastes.

TRC utilized the information presented in the Phase I ESA as a background search for the Site. The Phase I ESA states it was completed in accordance with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process (ASTM Standard E 1527-13). Specific sources of information reviewed and activities performed in conducting the background research include but are not limited to:

- Site zoning and land-use maps;
- U.S. Geological Survey (USGS) 7½-minute topographic maps;
- Geologic and hydrogeologic maps;
- Sanborn fire insurance maps;
- Building department records;
- Available aerial photographs;
- Environmental database list searches;
- Agency files at Federal, State and local regulatory agencies and offices for the Site;
- Agency files for listed facilities within ¼ mile of the Site that were identified as having a potential to have impacted the Site;
- Site owner/operator records (if available);
- Site inspections and observations of the Site and surrounding area within ¼ mile;
- Interviews with persons knowledgeable of Site history and operations (if such persons are available);
- Reports of prior investigations and remedial activities performed at the Site; and
- Available applicable information from LAUSD - OEHS files.

Based on the findings of the Phase 1 ESA, Parsons provided the following recommendations as related to the RECs:

- REC-1. Based on the historical Site use and demolition of former Site structures, Parsons recommended that surface and shallow soil samples be collected at biased and unbiased Site locations for analysis of lead.
- REC-2. Based on the historical use of the Site as a plant nursery, Parsons recommended that surface and shallow soil sampling be conducted at various biased and unbiased locations of the Site to be analyzed for the potential presence of organochlorine and inorganic pesticides and termiticides.
- REC-3. In consideration of the historical presence of oil tanks and uncertainties regarding the current disposition of these features, Parsons recommended that a geophysical survey be performed in the location of the two oil tanks. One of the tanks is within the proposed work limits and the other is outside them. A letter report prepared by Parsons titled

"Excavation of Subsurface Anomaly A", dated December 31, 2014, indicates that an excavation was conducted to determine if a small underground storage tank (UST) exists in the location of "Anomaly A". This reference suggests that a previous geophysical survey was performed at the Site. The geophysical survey was performed in the area of the oil tank identified in the Phase 1 ESA that was within the work limits. Based on the results of this investigation, Parsons concluded that no evidence of a UST was identified at this location. TRC concludes that no further investigation of these areas is warranted at this time. It should be noted that this opinion is premised on the assumption that a geophysical survey for the second tank may be necessary if work is proposed around this location in the future.

- REC-4. Based on the historical operation of a fuel dispensing and service station on the property adjacent to the southwestern portion of the Site (i.e., 3770 Western Avenue), Parsons recommended that a shallow on-Site soil gas survey be performed along the property line between the Main Campus property and the former service station property.

TRC concurred with the recommendations for further investigation of REC-1, REC-2, and REC-4. A sampling and analysis program was conducted to evaluate the potential presence of chemical constituents in shallow soils and soil gas beneath the Site. The scope of field and laboratory investigations was presented in Section 6.0 Site Investigation of the PEA Work Plan. The field and laboratory program included:

- Evaluating the potential presence of arsenic, lead, organochlorine pesticides (OCPs), volatile organic compounds (VOCs), and petroleum hydrocarbons in shallow soils by advancing borings and collecting soil samples in a grid like pattern and around potentially affected buildings throughout the Site.
- Advancing two borings near the southwestern edge of the property and converting to two permanent dual-nested soil gas probes. Collecting soil and soil gas samples from each of the soil gas probes to evaluate the potential presence of petroleum hydrocarbons and VOCs that may have migrated from the potential off-Site source (service station).
- Conducting the soil gas survey near the southwestern corner of the Site in accordance with the DTSC Advisory – Active Soil Gas Investigation (DTSC, 2012), with confirmation by a fixed-base laboratory analysis.
- Analyzing select soil samples for arsenic, lead, OCPs, petroleum hydrocarbons, and VOCs.
- Validating laboratory data (level II) to assure that data quality objectives (DQOs) are met and the data are suitable for use in the human health and ecological screening evaluation.
- Evaluating analytical results, including comparison to accepted background levels and human health based risk screening levels including the Environmental Protection Agency (EPA) Region IX Regional Screening Levels (RSLs) and Cal EPA DTSC-modified Screening Levels (i.e., Human and Ecological Risk Office (HERO) Human Health Risk Assessment Note Number 3 values) (DTSC, 2015), as appropriate.

Using the data collected during implementation of the field and analytical program, a screening level human health and ecological risk assessment was performed following the DTSC's PEA Guidance Manual. The PEA Work Plan included two supporting appendices that contain backup documentation for TRC's health and safety implementation and a quality assurance project plan (QAPP). These appendices are not repeated in this PEA Report, and the reader is referred to the PEA Work Plan for supporting documentation.

1.3 PEA Report Format

This PEA Equivalent Report is organized in general accordance with the format presented in Chapter 3 of the DTSC's PEA Guidance Manual. This PEA Report contains the following sections:

- Section 1 presents an Introduction, PEA Objectives, Scope of Work, and PEA Report Format.
- Section 2 presents a Site Description of the School Site.
- Section 3 includes Site History and Background Information.
- Section 4 defines the Apparent Problem.
- Section 5 contains a description of the Site Environmental Setting.
- Section 6 presents a discussion of Initial Sampling Activities and Results.
- Section 7 describes Supplemental Sampling Activities and Results.
- Section 8 summarizes Soil Removal Activities completed.
- Section 9 presents the Human Health Screening Evaluation.
- Section 10 presents the Ecological Screening Evaluation.
- Section 11 presents a Community Demographic Profile and Public Notification implementation.
- Section 12 includes a summary of QAPP measures.
- Section 13 describes Health and Safety Plan implementation.
- Section 14 summarizes Field Variances from the PEA Work Plan.
- Section 15 presents Conclusions and Recommendations of the PEA.
- Section 16 lists References cited in the document.

2.0 SITE DESCRIPTION

2.1 Site Name and Address

The FLC campus is located at 3751 South Harvard Boulevard, Los Angeles, California (Figure 1). The FLC campus consists of three separate properties including the Main Campus, Small Campus, and Parking Area. Only a portion of the Main Campus is considered the "Site" for the purposes of this PEA, see Figures 3 and 4A.

The Main Campus of FLC is bounded to the south by West Exposition Boulevard, South Western Avenue to the west, West 37th Place to the north, and South Harvard Boulevard to the east. This is the largest of the three properties at the Site and encompasses approximately 8.6 acres of land.

The Small Campus is located within a residential area across West 37th Place to the north of the Main Campus and is known as the Elementary Village property. The mailing address of Elementary Village is also 3751 South Harvard Boulevard. The Small Campus property encompasses approximately 0.62 acre of land and is developed with existing school buildings and playground area.

The Los Angeles County Office of the Assessor indicates that the address of the Parking Area lot parcel is 1633 West 37th Place and encompasses approximately 0.17 acre of land. The parcel is developed as an asphalt-paved lot for staff vehicle parking.

2.2 Designated Contact

The designated contact person for this project is Mr. Eric Longenecker, PE, Site Assessment Project Manager, LAUSD-OEHS (contract professional).

Office of Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, 21-220-02
Los Angeles, CA 90017
213-241-4263
eric.longenecker@lausd.net

2.3 Mailing Address

James A. Foshay Learning Center
3751 South Harvard Boulevard,
Los Angeles, CA 90018.

2.4 Telephone Number

Phone: (323) 373-2700
Fax: (323) 733-2120

2.5 Other Site Names

Foshay Junior High School
Foshay Junior High School and Instructional Material Center
S. Harvard LA City Board of Ed. Junior high schools Foshay
Foshay Jas A Junior High School

2.6 USEPA Identification Number

The United States EPA Identification number for the Site is CAD982024689.

2.7 Envirostor Database Number

The Site is not identified in the Envirostor Database.

2.8 Assessor's Parcel Number(s) and Maps

The Main Campus property has the following APNs, as designated by the Los Angeles County Office of the Assessor:

5041-034-900, 5041-034-901

The Small Campus property has the following APNs, as designated by the Los Angeles County Office of the Assessor:

5041-026-900, 5041-026-901

The Parking Area used by the school has the following APN, as designated by the Los Angeles County Office of the Assessor:

5041-025-900

2.9 Township, Range, Section and Meridian

Based on the United States Geological Survey (USGS) 7.5-Minute Topographic Series, Hollywood Quadrangle Map, dated 1994, revised from 1966, the Site is located in San Bernardino Meridian Section 32, Township 2, South, Range 14 West, Section 1. Geographic coordinates within the Site are 34.0193 North latitude, 118.3065 West longitude.

2.10 Site Land Use and Zoning

According to the Department of Planning City of Los Angeles website (ZIMAS.lacity.org), the Site is zoned as follows:

PF-1-O – Public Facilities
ZI-1117 – Zoning Information, MTA Project Zone
ZI-2374 – Zoning Information Los Angeles State Enterprise Zone
General Plan Land Use – Public Facilities

2.11 Site Maps

The general FLC area is presented in the Figure 1 - Site Vicinity Map. A site plan depicting the proposed new site layout with renovations and improvements is presented as Figure 2 – Proposed Site Plan. The entire FLC and working area limits are presented in Figure 3. The soil boring locations as part of the PEA investigation are presented on Figures 4A – Site Plan with Boring Locations and 4B – Site Plan with Boring Locations. The Conceptual Site Model Pathway Receptor Network is presented as Figure 5. The locations of soil borings advanced as part of the PEA supplemental site assessment activities are presented in Figure 6.

3.0 SITE HISTORY AND BACKGROUND INFORMATION

FLC consists of three separate properties on five parcels; the first is the main school campus, which is approximately 8.6 acres, and consists of multi- and single-story school buildings and paved and unpaved areas for playground and parking uses. A separate smaller property across West 37th Place to the north of the main campus is approximately 180 feet by 150 feet (0.62 acre) and consists of an asphalt-paved area with several single story classroom structures. The Parking Area property is also located across West 37th Place to the north of the main campus is approximately 50 feet by 150 feet (0.17) acre) and consists of a paved parking lot.

The Main Campus was undeveloped until the early 1900's at which time portions of the Site were developed with residential dwellings and several plant nurseries. The Main Campus was originally constructed in the early 1920's. The Small Campus across West 37th Street to the north appears to have been used as a nursery until the 1950's at which time a residential dwelling was present. The Small Campus was subsequently used as a parking lot between the 1960's through the 1990's when school structures were constructed. The Parking Area was formerly utilized for residential purposes.

The Main Campus consists of single and multi-story school-use buildings throughout the property located at 3751 South Harvard Boulevard in Los Angeles, California. The Main Campus property also has large grass and asphalt-paved play areas (primarily on the western portion of the Site), and several areas landscaped with grass, trees and bushes. The front of the school faces east toward South Harvard Boulevard. Elementary Village is present to the north across West 37th Place north of the larger campus. This property is also designated as 3751 South Harvard Boulevard by the Los Angeles County Assessor's Office. Formerly, this property was 1605 West 37th Place. A currently asphalt-paved Parking Area property used by FLC employees is located between residential properties located at 1631 and 1641 West 37th Place. The Parking Area property formerly contained residential dwellings and had addresses of 1633 and 1635 37th Place (Parsons, 2014).

3.1 Site Status/Historical Site Information

Aerial Photographs, Sanborn® maps, and other historical documentation indicate that the main larger school campus was undeveloped until the early 1900's, at which time portions of the Site were developed with residential dwellings, and several plant nurseries. The Main Campus was constructed in the early 1920's. The smaller school campus across West 37th Street to the north appears to have been used as a nursery until the 1950's at which time a residential dwelling was

present, and then a parking lot from the 1960's until the 1990's when school structures appear on the property. The Parking Area property was formerly residential property.

3.1.1 Property Ownership

The Site is owned by the LAUSD.

3.1.2 Facility Ownership/Operators

The School Facilities are owned by the LAUSD.

3.1.3 Business Type

The property is currently a fully operational school; business type is education.

3.1.4 Years of Operation

The Main Campus has been a school site since approximately 1923. The Small Campus was a nursery from about 1938 until 1966. Since about 1966, it has been associated with FLC. The Parking Area was residential from approximately 1928 through 1994. Since that time, it has been utilized by FLC for staff parking.

3.1.5 Business/Manufacturing Activities

The property is currently a fully operational school; business type is education.

3.2 Surrounding Land Uses

The FLC is surrounded by primarily residential neighborhoods to the north and east. To the west across South Western Avenue are primarily commercial businesses such as restaurants and small stores. The Los Angeles County Metropolitan Transportation Authority's (LACMTA) Expo Line runs south of the Site in the median space between the eastbound and westbound lanes of Exposition Boulevard. South of Exposition Boulevard is primarily residential use. Immediately adjacent to the southwest side of the school is a former gas station property (currently an auto repair and vehicle sales business) located at 3770 South Western Avenue.

3.2.1 Adjoining Properties and Land Uses

Based on information from the Parson's Phase I ESA dated March 2014, the Site is bordered by the following:

North:

- Main Campus: West 37th Place is present directly north of the Main Campus. North of West 37th Place are primarily residential dwellings, except near and at the western end of West 37th Place along South Western Avenue, where there are several commercial businesses.
- Small Campus: This smaller portion of the campus is bounded by residential dwellings to the north.

- Parking Area: Bounded by residential dwellings to the north.

South:

- Main Campus: The Site is bounded to the south by east and west bound lanes of Exposition Boulevard; the LACMTA Expo Line runs between the east and west bound lanes. There is an auto repair (former gasoline station) business present on the northeast corner of the intersection of South Western Avenue and Exposition Boulevard. South of Exposition Boulevard, residential dwellings are primarily present, with the exception of a gasoline service station at the southeast corner of the intersection of South Western Avenue and Exposition Boulevard.
- Small Campus: This smaller portion of the campus is bounded by West 37th Place to the south, with the larger Main Campus south of West 37th Place.
- Parking Area: Bounded by West 37th Place to the south, with the larger Main Campus south of West 37th Place.

East:

- Main Campus: Directly east of the Site is South Harvard Boulevard, and east of South Harvard Boulevard are residential dwellings.
- Small Campus: Directly east of the smaller campus are residential dwellings.
- Parking Area: Directly east of the Parking Lot are residential dwellings.

West:

- Main Campus: South Western Avenue is present immediately adjacent to the west side of the main campus. West across South Western Avenue are primarily small commercial businesses, such as hair salons and restaurants.
- Small Campus: Directly west of the smaller campus are residential dwellings.
- Parking Area: Bounded by a residential dwelling to the west.

3.2.2 Regulatory Status of Offsite Properties

- According to the California State Water Resources Control Board (Geotracker), there are no open cases within ½ mile of the Site.
- According to the California DTSC website (Envirostor), there are no open cases within ½ mile of the Site.
- According to the Air Quality Management District (AQMD) website, there are four regulated businesses within ¼ mile of the Site (including FLC). None of them have received a Notice of Violation, a Notice to Comply, or a complaint in the past 15 years.
- According to the California Division of Oil, Gas, and Geothermal Resources (DOGGR) website, there are no DOGGR wells or notices or permits within 1,500 feet of the Site.

3.3 Hazardous Substance/Waste Management Information

During the preparation of the Phase I ESA, the Los Angeles City Fire Department (LAFD) was contacted regarding hazardous materials records for the Site by Parsons. The LAFD indicated no records were found in their files for the school address.

3.3.1 Business/Manufacturing Activities

No evidence of any current or other historic business/manufacturing activities (other than nursery activities) on the Site was found during the preparation of this PEA.

3.3.2 Onsite Storage, Treatment, and Disposal

According to the Phase I ESA the chemicals and hazardous materials stored and used onsite, such as the science room chemicals, cleaning chemicals, and gasoline and propane stored for the school playground sweeper, were considered to occur in de minimis quantities.

A storage locker that has been and continues to be used to store paint, VOCs, and various types of fuels is located in the Paint Storage Shed. The Paint Storage Shed is a self-contained building at the northern portion of the property near 37th Place, north of Building 8. Based on this information this location was investigated as part of this PEA.

3.3.3 Regulatory Status

The Site is not listed in any regulatory agency databases reviewed by TRC.

3.3.4 Site Inspection Results

On December 11, 2013, Parsons personnel performed a reconnaissance at the Site. The reconnaissance involved a walk-through of the Site, noting observations, taking photographs of Site features, and interviewing LAUSD personnel who have knowledge of current and historical uses of the Site. The purpose of the reconnaissance was to obtain information, which may indicate the likelihood of identifying RECs in connection with the subject Site. FLC employees, Ms. Karel Lilly and Mr. David Hairston, were interviewed. Ms. Lilly has been a teacher at FLC for 30 years, and Mr. Hairston has worked as the Plant Manager at FLC for approximately one year, but has been employed by LAUSD for 26 years and also grew up in the FLC neighborhood.

Chemicals and hazardous materials were observed to be present in de minimis quantities at several locations around the school property. These primarily consist of cleaning materials stored in a locked room and chemicals for science experiments. The cleaning materials were stored a locked basement room and the materials were mostly stored on metal shelves in one-gallon plastic containers. These chemicals included Tag-Out (cleaner-degreaser), bleach, Gorm (floor stripper), Mistolin (water-based mop treatment), stain removers, and several boxes containing quarts of motor oil for the sweeper that cleans the asphalt playground. Mr. David Hairston, the Plant Manager at the FLC, is in the process of creating an inventory list, which was not available for review during the Site reconnaissance.

The science chemicals were stored in room FAPC 1, which had a National Fire Protection Association (NFPA) placard on the door, which was locked. Inside the storage room all inorganic and organic chemicals were kept in either latched (for earthquake protection) or locked shelves or cabinets. The cabinets were for acids and corrosive materials. Flammable liquids were also stored in this area. There was a Materials Safety Data Sheet (MSDS) binder kept in the same room as the chemicals and materials. No signs of spills or leaks were observed on the flooring in

this room. From the Site reconnaissance, there was no indication of hazardous materials being improperly handled at the Site. An MSDS binder was also observed in the front office of the school.

At the north side of the school near the north side of the "J' Building (Building 8 herein) in a small self-contained building (Paint Storage Area), there are two 55-gallon metal drums that are used to store gasoline which is transferred to the sweeper gas tank to clean the school playgrounds and walkways. Two metal propane tanks were also observed to be stored in this room. The door to this small storage building had a NFPA placard. Minor gasoline spills appeared to have occurred over time on the concrete floor of this building.

Two historic "Oil Tanks" are indicated to have existed as part of the school in the Plot Plan dated 1925, although the oil types were not noted. No indications of these tanks were observed during the Site reconnaissance.

Some buckets and containers of unknown materials were observed through the chain-link fence at 3770 South Western Avenue immediately adjacent to the southwest side of the Site. The type and use of the materials is unknown. The ground around this area could not be observed due to the amount of materials stored, and the fact that much of it was covered with other debris / equipment.

One utility pole was observed offsite near the corner of Exposition Boulevard and South Western Avenue in which the wood pole was leaking a significant amount of black viscous material, which appeared to be similar to tar. The tar-like material was oozing from the wood utility pole onto the concrete pavement; there was no transformer on the pole.

One elevator is present at the school; it is located at the south side of the main building. The condition of the lift equipment underneath the elevator was not observed as a part of the Phase I ESA. No known elevator equipment leaks or problems have been noted during research for this report. The age of the elevator is unknown. Three recently installed smaller electric elevators are on the school property; these are not suspected of using pistons with hydraulic oils. No chemicals or hazardous materials were observed on the Parking Area property during a follow-up drive-by visit on March 17, 2014, to observe just that property. The Parking Area property is being used to park vehicles for FLC employees. It is an asphalt-paved lot surrounded by block walls topped with chain-link fence (Parsons, 2014).

3.3.5 Prior Assessments/Remediation

As part of this PEA, TRC reviewed the Parsons Phase I ESA which described the asbestos containing material (ACM) and hazardous materials inventory documentation maintained by the LAUSD. In addition, TRC reviewed the "Excavation of Subsurface Anomaly A" letter prepared by Parsons (Parsons, 2014) which detailed a geophysical survey investigation that attempted to located one of the USTs (located within the working area limits) identified in the Phase I ESA. TRC also reviewed the "Soil Removal Report" (Parsons 2016) which documents recent soil removal activities based on the results of soil samples collected as part of this PEA,

4.0 APPARENT PROBLEM

Based on the historical information reviewed and RECs identified in the Phase I ESA, potential sources of contamination at the Site include previous historical agricultural and nursery uses, demolition of Site structures, and the presence of a fuel and service station on the property located southwest of the Site. No other documentation of reported spills or releases was identified during the background research for the PEA.

Therefore, contaminants of potential concern associated with the Site include residual arsenic, lead, OCPs, VOCs, petroleum hydrocarbons, and other chemicals (i.e., metals, volatile organic compounds, and semi-volatile organic compounds) associated with the hazardous substances commonly associated with the RECs.

5.0 ENVIRONMENTAL SETTING

5.1 Factors Related To Soil Pathways

5.1.1 Site Topography and Surface Slope

The Site is located at an elevation of approximately 150 feet (ft) above mean sea level (National Geodetic Vertical Datum [NGVD], 1992) on the Los Angeles Coastal Plain. The local topography in the area of the Site slopes gently toward the west. The Baldwin Hills are located approximately 3.0 miles southwest of the Site and Rosecrans Hills are located 4.5 miles south of the Site. The Santa Monica Mountains are located approximately 8.0 miles north of the Site. The Los Angeles River, within a concrete-lined channel, is located approximately 4.75 miles east of the Site (United States Geological Survey, 1994).

5.1.2 Proximity to Surface Water Bodies

There are no surface waters within a 1 mile radius of the Site. The nearest surface water body to the Site is the Ballona Creek, located approximately 4 miles to the west and the Los Angeles River, a concrete-lined river channel located approximately 4.75 miles to the east.

5.1.3 Evidence of Releases to the Environment

As discussed above in Section 3.3.4, there was no observed evidence of environmental impacts from a release at the Site (e.g. stained soil, stressed vegetation, etc.).

5.1.4 Site Geology and Soil Types

The Site is located within the Los Angeles Coastal Plain. The Los Angeles Coastal Plain is an alluviated lowland surrounded by the mountains and hills of the Transverse and Peninsular Ranges. Recent alluvium composed of gravel, sand, silt, and clay is present beneath the area of the Site to a depth of approximately 25 ft below grade (fbg) and the Lakewood Formation is present from approximately 25 to 135 fbg. The Lakewood Formation is composed of marine and continental gravel, sand, sandy silt, silt, and clay with shale pebbles. The Newport Inglewood fault zone is located approximately 3.0 miles southwest of the Site and the Baldwin and Rosecrans Hills are structural features of the Newport-Inglewood fault zone. Producing oil fields are

associated with these structural features (State of California Department of Water Resources [CDWR], 1990).

Across Exposition Boulevard to the south of the Site at 3774 South Western Avenue, previous investigations determined that soil types encountered beneath that property consist of clay and silty sand from grade to approximately 13 fbg, sand from approximately 13 to 19 fbg, sandy gravel from approximately 19 to 36 fbg, sand from approximately 36 to 54 fbg, and interbedded layers of clayey sand, sand, silty sand and silt from approximately 54 to 87 fbg (total depth of investigation); groundwater was not observed during Site investigation activities (TRC, 2006).

Soil types encountered in the majority of the PEA investigation (to 3 fbg) mainly consisted of brown silt with occasional lenses of clay and sand. Gravel was primarily shown to be located at 1 to 2 fbg with occasional occurrences of brick and other various debris throughout the Site. The three deeper borings (12 to 15 fbg total depth) consisted of the same type of soil, with larger sand lenses at 12 fbg.

5.1.5 Site Accessibility and Controls

The Site is fenced and secure, with access at the main entrance off of Harvard Boulevard. There are also access points (gates) off of Exposition Boulevard and 37th Place.

5.1.6 Proximity to Nearby Receptors

TRC conducted a sensitive receptor search within a 1 mile radius of the Site. In consideration of the available information in the public domain for the Site, below are the summarized results.

On-Site Human Receptors

The Site is overlain primarily by asphalt, concrete, grass playing fields, and a few planters located along the Site boundary. Based on the results of the Phase I ESA and study of the historical background of the Site, soils are potentially impacted by OCPs/termiticides, heavy metals and metalloids (including lead from lead-based paint and arsenic), petroleum hydrocarbons, and VOCs. The impacted areas are mostly covered by asphalt paving, concrete, and landscape/grass cover; therefore, the transport pathway of chemicals in subsurface soil by volatilization of soil gas to the atmosphere is very low and direct contact with chemicals in surface soil is highly unlikely.

Off-Site Human Receptors

The Site is surrounded primarily by residential neighborhoods to the north and east. To the west across South Western Avenue are primarily commercial businesses consisting of restaurants and small stores. The LCMTA Exposition Line runs south of the Site in the median space between the eastbound and westbound lanes of Exposition Boulevard. South of Exposition Boulevard is primarily residential areas. Immediately adjacent to the southwest side of the Site is a former gas station property (currently an auto repair and vehicle sales business) located at 3770 South Western Avenue.

Hospitals, Schools, and Day Care Centers

TRC assessed other potential receptors within a 1 mile radius of the Site including hospitals, schools, child day care centers, and senior day care centers. Results of the internet search indicated the following:

- There are three daycare facilities within 1 mile of the Site. The closest, Metcalf Family Child Care, is located approximately 0.4 miles northeast of the Site (Yellow Pages Website, 2015).
- There are seventeen schools within 1 mile of the Site. The closest includes 36th St. Children's Center and Bright Elementary School both located approximately 0.3 miles northwest of the Site (Google Earth, 2015).

Groundwater Wells

The Phase I ESA report prepared by Parsons indicated that there are no local municipal, domestic, industrial, and agricultural wells within 1 mile radius of the Site. According to the Los Angeles County Department of Public Works Hydrologic Records Division website (http://dpw.lacounty.gov/general/wells) there are no active wells located within a 1-mile radius of the Site (LADPW). The nearest well is located over one mile to the southwest of the Site, near 5th Avenue and West 43 Street. This is State Well ID 2S14W14C05, and depth to water was measured at 180 fbg in October 2005. Only limited information was available for this well.

The nearest groundwater monitoring wells to the Site as found on the State Water Resources Control Board's Geotracker website are approximately 4,000 ft southwest of the Site. The wells were installed as part of an open Leaking Underground Storage Tank case (closed case #T0603722722) at the Shell service station located at 2215 Martin Luther King Jr. Boulevard, which is located at the northeast corner of Arlington Avenue and Martin Luther King Jr. Boulevard. Depth to water, last measured in 2004 in the four wells on that property, ranged from approximately 65 to 66 fbg.

According to the Phase I ESA report, the Environmental Data Resources (EDR) Radius Report, there are no water wells within ¼-mile of the Site. There was one water well ("Charnock Well 17") approximately 3/8-mile northeast of the Site, owned by the City of Santa Monica Water Division, which was destroyed. A well cluster located just under ½-mile south of the Site (Well 002S014W12E004S) has a total depth of approximately 1,609.3 ft with six well screen intervals ranging in depths between 210 and 1,570 ft. The status of this well was not reported in the EDR Radius Report.

5.2 Factors Related to Water Pathways

5.2.1 Groundwater Pathway

5.2.1.1 Site Hydrogeologic Setting

The Site is located on the Downey Plain, a subdivision of the Los Angeles Coastal Plain. The Downey Plain extends from the Ballona Gap across the central lowland of the Los Angeles Coastal Plain into the Orange County Coastal Plain. The Downey Plain is a depositional feature

formed by alluvial fans. The alluvial fans formed by the Los Angeles and Rio Hondo-San Gabriel River systems have coalesced to form a plain. During flood conditions, these rivers have moved over most of this area depositing debris (CDWR, 1990).

The Los Angeles Coastal Plain is divided into four groundwater basins: the Santa Monica Basin, the West Coast Basin, the Hollywood Basin, and the Central Basin. The Site is located in the Central Basin along the western boundary between the Los Angeles Forebay Area and the Central Basin Pressure Area. The Forebay Area contains small amounts of low permeability sediments, and is a groundwater recharge area. The Pressure Area contains large amounts of low-permeability sediments, which inhibit the percolation of surface water. The Central Basin is bounded on the north by the Hollywood Basin and a series of low hills extending from the Elysian Hills on the northwest to the Puente Hills on the southeast. The Central Basin is bounded on the west and south by the Newport-Inglewood fault zone and on the southeast by the Los Angeles-Orange County line (CDWR, 1990).

The Exposition and Gardena aquifers are present within the Lakewood Formation in the subsurface beneath the Site. The Exposition aquifer consists of as many as three sand and gravel members separated in some areas by discontinuous clay and silt lenses. In the area of the Site, a currently unsaturated portion of the Exposition aquifer appears to be present at approximately 25 fbg and is approximately 70 ft thick. The Gardena aquifer is separated from the Exposition aquifer by approximately 50 ft of relatively impermeable material (silts and clays). The Gardena aquifer appears to be present at approximately 145 fbg and is approximately 30 ft thick in this area (CDWR, 1990). Across Exposition Boulevard to the south of the Site at 3774 South Western Avenue, previous investigations were conducted to a total depth of approximately 87 fbg and groundwater was not observed (TRC, 2006).

The regional groundwater gradient in the area of the Site is directed northward towards the Hollywood Basin. The water quality in the Central Basin is generally good. However, isolated pockets of naturally occurring iron and manganese (above drinking water standards) are present in the Los Angeles Forebay area east of the Site (CDWR, 1990).

5.2.1.2 Impacted Aquifers from Site Releases

No evidence has been found to suggest a release or threatened release from the Site to groundwater. Therefore, aquifers are not known or suspected to have been impacted from Site releases.

5.2.2 Surface Water Pathway

No surface water bodies exist on the Site or surrounding area. Therefore, surface water sampling was not performed as a component of this investigation. With the exception of occasional planter areas and the grass playfield area, the surface of the Site is covered with asphalt, concrete or buildings. Stormwater drainage from the Site is directed toward storm drains and catch basins. With the exception of soil samples collected west of Building 15, elevated concentrations of chemical constituents were not detected in near-surface soil samples in unpaved portions of the Site. The area west of Building 15 contained elevated concentrations of lead in shallow soil. This planter area is surrounded by grass, which would impede the potential offsite migration of storm or irrigation water in this area. Therefore, it is unlikely that a release or threatened release of

hazardous substances to surface water would occur under current or anticipated future Site conditions.

5.3 Factors Related to Air Pathways

Based on the current Site development (e.g., asphalt and concrete paving and school buildings and structures), potential emissions from soil are considered to be insignificant under current conditions. There is no documentation of a release of hazardous substances to the atmosphere. Future Site development activities would result in the removal of asphalt and concrete paving and certain buildings and structures that could increase the potential for fugitive dust generation. Potential sources of a hazardous substances release to the atmosphere are limited to fugitive dust from surface soils and volatilization of volatile chemicals found in the soils during the PEA. However, as discussed in Section 6.0, chemical constituents were detected at relatively low concentrations and in only a small number of samples. Therefore, the potential for releases of hazardous substances from the Site to the atmosphere is considered to be *de minimis*. Sensitive receptors in the vicinity of the Site (within 1 mile) are discussed above in Section 5.1.6.

5.4 Site Conceptual Model

TRC has developed a preliminary conceptual site model (CSM) to assess the Site's potential risks to human health and the environment. The CSM has also been utilized to develop the PEA Soil and Soil Gas Sampling Program. As noted in the Phase I ESA (Parsons, March 2014), historical uses of the Site have resulted in potential RECs and chemical releases to on-Site soil. Potential exposure routes from these potential releases include inhalation, dermal contact, and incidental ingestion. The point of contact is assumed to be areas that are being modernized or redeveloped in the project area. In addition, there is a potential for off-Site soil vapor intrusion or infusion onto school property from the REC-4, the historic fuel dispensing and service station located on the property adjacent to the southwestern portion of the Site (i.e., 3770 Western Avenue). The CSM was developed primarily based on the potential presence of chemicals or compounds as detailed below:

- OCPs and lead in or on historic Site structures,
- OCP and arsenic use in historic Site activities (e.g. nurseries),
- Petroleum hydrocarbons and VOCs (Paint Storage Shed), and
- Petroleum hydrocarbons and VOCs (REC-4, off-Site fuel and service station).

The CSM detailing potential sources, secondary sources, transport mechanisms, exposure mediums, and potential receptors is presented in Figure 5. For additional details on the PEA Soil and Soil Gas Sampling Program logic and rationale and potential subsequent step-out sampling that may be required, refer to Section 6.2 Soil Sampling and Analysis.

Section 9 includes an assessment of an updated CSM based on the actual contaminant concentrations encountered during the investigation.

6.0 INITIAL SAMPLING ACTIVITIES AND RESULTS

6.1 Summary of Activities

TRC completed an initial PEA field investigation to investigate the RECs identified in the Phase I ESA and to prepare the Site for the modernization and construction activities. The field investigation consisted of a soil and soil gas sampling program. Soil samples were collected within the project area in accordance with DTSC's PEA Guidance Manual and DTSC's Interim Guidance for 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 (DTSC 2006). Soil gas probe installation and sampling was conducted in general accordance with the guidelines provided by the DTSC Advisory – Active Soil Gas Investigations (DTSC, 2012).

The PEA soil and soil gas sampling program consisted of the advancement borings and collection of soil samples underneath the approximately 150,000 square ft of hardcourts landscaping, and parking. Soil boring locations were executed on an approximate 50-foot grid for arsenic, 200-foot grid for OCPs and lead, and four around each building (if possible) to be removed/demolished. However, some borings were moved, co-located with samples collected for other purposes, or removed from the soil sampling program due to logistical challenges (e.g., utility conflicts, presence of overlying structures, or limited work areas). A summary of the initial soil and soil gas program is presented below:

- Fifty-six (56) arsenic borings (grid borings labeled by grid location) were advanced on an approximate 50-foot grid;
- Four (4) OCP, lead, and arsenic borings were advanced on an approximate 200-foot grid;
- Eleven (11) OCP, lead, and arsenic borings were advanced around the buildings (building borings labeled by building number[1]);
- Thirty (30) OCP and lead borings were advanced around the buildings;
- One (1) VOC boring was advanced near the Paint Storage Shed;
- Two (2) TPH, VOC, and arsenic co-located borings were advanced near the southwestern area of the property, subsequently converted to two (2) soil gas probe locations, sampled, and abandoned; and
- Four (4) arsenic and three (3) lead step-out borings were advanced near the borings with respective screening level exceedances.

The soil and soil gas sampling programs are summarized in Tables 1 through 5. Boring and sampling locations are presented on Figures 4A and 4B. Additional detail regarding soil sample collection, preservation and handling protocol, equipment decontamination, soil sample analyses, and laboratory information can be found in the QAPP presented in Appendix C of the PEA Work Plan. The following sections detail the PEA field investigation.

[1]Upon review of the sampling locations it was determined that BD15-Eb was actually collected from the northeast corner of Building 14. The initial step-out samples followed this same nomenclature. The additional sampling corrected the building/sample locations and nomenclature.

6.2 Permitting

TRC contacted the Los Angeles County Department of Public Health Department regarding boring permits. A boring permit is only required if the total depth is greater than 20 fbg or if groundwater is encountered. Based on the proposed maximum total depth of 15 fbg and that groundwater was not expected to be encountered during the investigation, boring permits were deemed unnecessary.

6.3 Site Clearance and Geophysical Survey

Clearance of utilities and other underground obstacles was conducted prior to initiating any soil intrusion or subsurface investigation activities. Underground Service Alert (USA) was notified at least two business days prior to commencing intrusive work at the Site. The USA ticket was maintained at the Site during the field investigation, no updates were necessary for boring location changes.

In addition, a geophysical survey was conducted by Pacific Coast Locators of Escondido, California on March 28, 2015. The geophysical survey cleared and marked out all conductive and non-conductive underground utilities including but not limited to: water lines, natural gas lines, electrical lines, telecommunication lines, sewer lines, and area and storm drain pipes within the project area. The geophysical survey utilized electro-magnetic and ground penetrating radar to locate the underground utility lines and subsurface features and structures prior to the initiation of intrusive investigation activities. Boring locations were spray painted and the utility markings were marked with temporary indicators (i.e. flags or chalk, no paint was used).

6.4 Soil Matrix Sampling and Analysis

6.4.1 Sample Locations and Rationale

The PEA soil sampling program and protocol varied by boring type and considered the analyte(s) of interest at each respective boring location and Site area. Depending on the analytical results of the shallowest soil sample relative to either accepted background concentrations or selected human health based screening levels, deeper soil samples were subsequently analyzed to define the vertical extent of impact. In addition, step-out borings were deemed necessary in order to further define the lateral extent of apparent impact. For the purpose of this evaluation, human health based screening levels were established based on a combination of the EPA Region IX RSLs and Cal EPA DTSC-modified Screening Levels (DTSC-SLs) (DTSC, 2015). The decision criteria for determining whether analysis of deeper soil samples from a specific boring or collection of step-out samples lateral to an initial boring location was warranted is outlined below:

- Arsenic soil samples were screened utilizing the accepted background concentration of 12 milligrams per kilogram (mg/kg);
- Lead soil samples were screened utilizing the DTSC Residential Screening Level of 80 mg/kg;
- OCPs and VOCs were screened utilizing a combination of human health based screening criteria based on individual chemical or compound as specified above.

6.4.1.1 Arsenic Borings

Soil borings were advanced on an approximately 50-foot grid pattern across the Site and near select buildings in order to evaluate the possible presence of arsenic in near surface soil. While these borings were advanced to a total depth of approximately 3 fbg, only the soil samples collected immediately beneath the asphalt (i.e., at a depth of approximately 0.5 to 1 fbg) were initially analyzed for arsenic. In borings where the arsenic concentration exceeded the representative background concentration (12 mg/kg), the soil sample collected at the next depth (i.e., 1 to 1.5 fbg, etc,) was analyzed sequentially. At each location and depth where an exceedance was discovered, step-out sampling was conducted to determine the lateral extent, if necessary.

6.4.1.2 Organochlorine Pesticides and Lead Borings

In order to determine potential OCP and lead impacts across the Site and specific lead impacts near buildings targeted for replacement or removal, borings with soil samples to be analyzed for OCPs and lead (potential LBP areas) were located on an approximate 200-foot grid. If possible, the borings were co-located at the same locations as the arsenic sampling locations. Initially the samples from just below the asphalt (i.e., 0.5 to 1 fbg) were analyzed for OCPs and lead. As with the arsenic borings, samples collected at greater depths were subsequently analyzed in the event that the concentration of OCPs exceeded human health based screening levels or the concentration of lead exceeded 80 mg/kg. At each location where an exceedance was discovered, step-out sampling was conducted to determine the lateral extent, if necessary.

In addition to the samples collected from the 200-foot grid pattern, four borings were advanced around the perimeter of each of the existing eleven (11) smaller buildings to be eliminated/removed. It should be noted that due to the proximity of some buildings, the actual number of perimeter borings was less than four for each building. Due to the size of the North Classroom Building (NCB, Building 15) six (6) samples were collected. The borings advanced around the perimeter of each building were composited for analysis of OCPs: one for the smaller buildings and two for the NCB. The soil samples analyzed for lead were all discrete samples. Step out criteria for these borings remained the same as described above.

6.4.1.3 Volatile Organic Compound Boring

One boring was advanced to a total depth of approximately 12 fbg near the Paint Storage Shed. This boring was also continuously cored and screened in accordance with the protocol for the 3-foot borings except the cores were 3-feet long instead of 6 inches. Soil samples were collected from this boring via EPA Method 5035 from one end of each 3-foot core and submitted to the laboratory for analysis of VOCs. The remainder of the soil was placed in a DOT-approved 55-gallon drum. Initially, only the 3-foot sample from this boring was analyzed. The analytical results from this sample did not exceed human health based screening levels (chemical or compound specific). Therefore, no additional samples from this boring were analyzed. The soil boring advancement and sample collection procedures for the soil sampling program are defined in the next section.

6.4.2 Boring Advancement and Sample Collection Procedures

Most of the soil borings were advanced using a direct-push drill rig to a total depth of approximately 3 fbg and continuously cored. Direct-push drilling rigs utilize both weight and percussion to drive a 4-foot-long core barrel sampler attached to the drill rod. The core-barrel was lined with a two-inch diameter acetate sleeve and the probe tip was opened to allow soil to enter the core barrel as it was driven into the soil. In each boring, the sampler was driven to a depth of approximately 3 fbg. The liner containing the soil core was then removed for soil logging and sample collection. The sampler was then rinsed, re-lined with a new acetate sleeve, and prepared for the next boring.

Soil borings were logged in accordance with the Unified Soil Classification System (USCS), under the direct supervision of a State of California Civil Engineer or Geologist. After logging the soil, the top 0.5-foot of the acetate core was cut and placed in a resealable plastic storage bag, and screened with a photoionization detector (PID). Then Teflon® tape was placed over each end of the 0.5-foot core and plastic caps were placed on each end and the entire assembly. The samples were then placed into resealable plastic bags and submitted for laboratory analysis. Note, only soil was placed in the bag, any asphalt or base material was separated and placed in a Department of Transportation (DOT)-approved 55-gallon steel drum. The remainder of the acetate core was cut into 0.5-foot interval samples. A small portion of soil from the end of each core was removed, placed in a resealable plastic bag and screened with a PID.

Based on logistics and Site access constraints, approximately 20 borings were hand augured/slide-hammer driven in lieu of direct-push drill rig advancement. The slide-hammer driven borings were advanced to a total depth of 3 ft and sampled at 0.5-foot intervals using clean 6-inch brass sleeves. Some of the soil at each interval was placed in a resealable plastic storage bag, screened with a PID, and logged in accordance with the USCS. The brass sample sleeves ends were then covered with Teflon®, capped with plastic caps, properly labeled, and submitted for laboratory analyses.

All soil samples were submitted under proper chain-of-custody (COC) protocols to Advanced Technology Laboratories (ATL), a California State-certified analytical laboratory, for analysis.

6.4.2.1 Soil Description

During drilling operations, boring logs were completed for each soil boring. Each log recorded the following sampling information: boring number and location; sample identification numbers; date and time; sample depth; soil description in accordance with the USCS; description of any visible evidence of soil contamination (i.e., odor or staining), and PID readings. Boring logs are provided in Appendix A.

An organic vapor meter was used for both field screening and health and safety monitoring during soil sampling activities. A RAE Systems Inc. MiniRAE PID was employed at the Site. PID data was used as an immediate indicator of volatile organic vapors in subsurface materials.

The MiniRAE was calibrated to display concentration in units equivalent to parts per million (ppm). A span gas containing isobutylene at 100 ppm in air was used to set the sensitivity. The instrument was calibrated following procedures described in the QAPP, which was included as

Appendix C to the PEA Work Plan. The instrument was calibrated at a minimum of once per day. The MiniRAE was equipped with lamp energy of 10.6 electron Volts (eV).

6.4.2.2 Decontamination

All equipment that came into contact with potentially contaminated soil was decontaminated to assure the quality of samples collected. Disposable equipment intended for one-time use was not decontaminated, but packaged for appropriate disposal. Decontamination occurred prior to and after each use of a piece of equipment. All drilling and sampling devices used were decontaminated in a pre-designated area using the following procedures:

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

6.4.2.3 Collection of Field Equipment Blank Samples

Six field equipment blank water samples were collected. The field equipment blank samples were collected by pouring laboratory-provided, organic-free water, or de-ionized water over decontaminated drilling equipment, such as the core sampler. The water was collected in laboratory-provided water sampling containers. The containers were handled in the same fashion as other samples (i.e., placed in a cooler with ice and identified on the COC) and delivered to the laboratory for analysis with other samples collected the same day.

6.4.3 Sample Handling Procedures

Sample containers consisted of new, clean brass sleeves, acetate liners, and laboratory-provided water sample containers for equipment blank samples. To identify and manage samples obtained in the field, a sample label was affixed to each sample container. The sample labels included the following information:

- Project number;
- Site name;
- Boring number;
- Sample identification number;
- Sampler's initials; and
- Date and time of collection.

Following collection and labeling, samples were immediately placed in a sample cooler for temporary storage. The following protocol was followed for sample packaging:

- Sample containers were placed in clear, plastic, leak-resistant bags prior to placement in the ice chest.
- Ice was placed in leak-resistant plastic bags and included in the coolers to keep samples at a chilled temperature during transport to the analytical laboratory.

- The COC form was placed in a water-resistant plastic bag and taped on the inside of the lid of the cooler.

Self-adhesive custody seals were not used as the samples were transferred directly from field personnel to laboratory personnel.

Field notes and COC forms were used to record the following information during the collection of each sample:

- Sample identification number;
- Sample location and description;
- Site sketch showing sample location and measured distances;
- Sampler's name(s);
- Date and time of sample collection;
- Designation of sample as composite or grab;
- Type of sample (e.g., matrix);
- Type of preservation;
- Type of sampling equipment used;
- Field observations and details important to analysis or integrity of samples (e.g., heavy rains, odors, colors, etc.);
- Instrument readings (i.e., PID);
- COC form numbers and COC seal numbers;
- Transport arrangements (e.g., courier delivery, lab pickup, etc.); and
- Recipient laboratory(ies).

6.4.4 Soil Matrix Analytical Procedures

All soil samples were submitted under proper COC protocols to ATL, a California State-certified analytical laboratory, for analysis. Arsenic samples were subcontracted by ATL to American Environmental Testing Laboratory, Inc. (AETL) of Burbank, California. Samples were transported to the laboratory via laboratory courier. The laboratories were instructed to report estimated values between the method detection limit and reporting limit and "J"-flag each estimated value.

The following samples (including field QC samples) were collected and analyzed as part of the PEA field investigation:

- Eighty-nine (89) soil samples for arsenic by USEPA Method 6020 (80 field samples and 9 field duplicates);
- Sixty-four (64) soil samples for lead by USEPA Method 6010B (57 field samples and 7 field duplicates);
- Twenty-two (22) soil samples for OCPs by USEPA Method 8081 (20 field samples and 2 field duplicates);
- Five (5) soil samples for lead Soluble Threshold Limit Concentration (STLC) by USEPA Method 6010B (5 field samples);

- Five (5) soil samples for lead Toxicity Characteristic Leaching Procedure (TCLP) by USEPA Method 6010B (5 field samples);
- Eight (8) soil samples collected via EPA Method 5035 and analyzed for VOCs by USEPA Method 8260B (7 field samples and 1 field duplicate);
- Seven (7) soil samples collected via EPA Method 5035 and analyzed for TPH by USEPA Method 8015B (6 field samples and 1 field duplicate); and
- Six (6) water samples (field equipment blanks) for arsenic and lead by USEPA Methods 6020 and 6010B and four (4) water samples (field equipment blanks) for OCPs by USEPA 8081.

The PEA field program is presented in Table 1 and the number of analyses and methods are presented in Table 2.

6.4.5 Soil Matrix Analytical Results

A summary of soil detections is provided in Tables 3 and 4. ATL's and AETL's laboratory reports and COC documentation are provided in Appendix B. A summary of analytical results from the soil sampling program is presented below.

6.4.5.1 Arsenic

Arsenic was detected in all samples collected from the Site, at concentrations ranging from 1.38 mg/kg to 20.2 mg/kg (sample B3-0.5). The arsenic soil screening level of 12 mg/kg was exceeded in four initial samples (BD6-S0.5, A2-0.5, B3-0.5, and F2-0.5) prompting 4 step-down analyses (BD6-E1, A2-1, B3-1, and F2-1). Sample F2-1 (17.4 mg/kg) also exceeded the arsenic screening level and was the highest concentration in the boring, therefore, four step-out borings were advanced (F2N-0.5, F2S-0.5, F2W-0.5, and F2E-0.5) approximately 25 feet from boring F2 in all major directions. Concentrations of arsenic in all four step-out borings were below the arsenic screening level. As such, the concentrations of arsenic in the soil indicate it is not a hazardous or regulated waste.

6.4.5.2 Lead

Total lead was detected in all samples collected from the Site at concentrations ranging from 2.1 to 1,100 mg/kg (BD15-EbN-0.5). The total lead soil screening level of 80 mg/kg was exceeded in three initial samples (BD4-N-0.5, BD15Eb-0.5, and BD15-Wa-0.5) which prompted three step-down analyses (BD4-N-1, BD15Eb-1, and BD15-Wa-1). All three step-down analyses were below the total lead screening level, however, based on the high total lead concentration of 850 mg/kg in sample BD15Eb-0.5, three step-out borings (BD15EbN, BD15EbE, and BD15EbS) were completed.

Based on results of the initial and step-out boring total lead analyses, five samples were analyzed for lead STLC. The lead STLC concentrations ranged from 3.1 milligrams per liter (mg/L) to 91 mg/L (sample BD15-Eb). Four of the five lead STLC analyses exceeded the 5.0 mg/L threshold. Therefore, these samples were also analyzed for lead by toxicity characteristic leaching procedure (TCLP). Lead TCLP concentrations in these samples ranged from 0.068 mg/L to 1.7 mg/L, below the TCLP threshold of 5.0 mg/L. These results indicated that lead impacted soil

within the planter located east of Building 15 would be considered representative of California (non-Resource Conservation and Recovery Act [RCRA]) hazardous waste upon removal.

6.4.5.3 Organochlorine Pesticides

The following OCPs were detected in soil samples collected at the Site:

- Dieldrin at concentrations ranging from 2.3 to 12 micrograms per kilogram (µg/kg) in 5 of 22 samples analyzed;
- 4-4'-DDE at concentrations ranging from 2.3 to 62 µg/kg in 6 of 22 samples analyzed;
- 4,4'-DDT at concentrations ranging from 2.4 to 33 µg/kg in 5 of 22 samples analyzed;
- alpha-Chlordane at concentrations ranging from 1.0 to 20 µg/kg in 6 of 22 samples analyzed;
- gamma-Chlordane at concentrations ranging from 1.0 to 11 µg/kg in 7 of 22 samples analyzed; and
- Chlordane at concentrations ranging from 10 to 130 µg/kg in 7 of 22 samples analyzed.

All OCP concentrations were below their respective health-based screening levels. As such, the concentrations of OCPs in the soil indicate it is not a hazardous or regulated waste.

6.4.5.4 Volatile Organic Compounds

No VOCs were detected in the eight soil samples analyzed for the Site.

6.4.5.5 Petroleum Hydrocarbons

No petroleum hydrocarbons were detected in the seven soil samples analyzed for the Site.

6.5 Soil Gas Sampling and Analysis

6.5.1 Sampling and Locations Rationale

TRC installed two dual-nested soil gas probes along the property boundary adjacent to the former service station to the southwest (SG-1 and SG-2). The probes were installed in order to determine the possible presence of VOCs in soil gas that may be associated with the former offsite service station. Soil gas probe installation, soil gas sampling, and laboratory analysis were conducted by H&P Mobile Geochemistry (H&P) in accordance with the DTSC Advisory – Active Soil Gas Investigation (DTSC, 2012).

6.5.2 Sample Collection Procedures

The probes were installed by using direct-push drilling and continuously cored to a total depth of 15 fbg. Soil samples were collected at 5-foot intervals and logged in accordance with the USCS, under the direct supervision of a State of California Civil Engineer or Geologist, and include field estimates of soil type, density/consistency, moisture content, odor, and color. The soil gas probe locations are presented in Figure 4A. Boring logs are provided in Appendix A.

After logging, the soil samples were further processed via EPA Method 5035 and submitted under COC protocol to ATL, a California State-certified analytical laboratory, for analysis. Each soil sample was labeled with the sample number, sample depth, sampler initials and date of collection, and placed in a cooler containing ice, prior to transport and analysis. Standard sample COC procedures were followed from the time the samples are collected until the samples are relinquished to the analytical laboratory. Samples were transported to the laboratory via laboratory courier. The soil samples were analyzed for total petroleum hydrocarbons (TPH) full-carbon chain via EPA Method 8015 and VOCs including fuel oxygenates methyl-tert-butyl ether, tert-amyl methyl ether, ethyl-tert-buty ether, diisopropyl ether, and tert-butyl alcohol via EPA Method 8260.

6.5.2.1 Soil Gas Probe Installation

Following boring advancement, dual-nested semi-permanent soil gas probes were set at each probe location at approximate depths of 5 and 15 fbg. The soil gas probes were constructed with a 1-inch stainless steel mesh filter, 1/8-inch Nylaflow® tubing, and equipped with a valve at the termination. The probe tip was set within a minimum 6-inch sand pack, and topped with a minimum of 6-inches of dry bentonite. The soil gas probe locations are presented in Figure 4A.

6.5.2.2 Soil Gas Probe Sampling Procedures

Soil gas sampling was conducted using a field chemist and analyzed using a mobile laboratory. Soil gas samples were collected using a low-flow sampling pump. Following a 120 minute equilibration time, the samples were collected into 50 milliliter (mL) glass syringes for analysis in the mobile laboratory. At each location, a shut in test was performed for 60 seconds, and 1,1-difluoroethane (DFA) was utilized as a liquid leak check.

The liquid tracer compound (DFA) was applied to a towel and kept in a closed plastic re-sealable bag until it is ready to be used. Prior to purging and sampling of the soil gas probe, the towel was emptied from the plastic bag and placed directly at the point of entry of the soil gas probe into the borehole. This was used to test the integrity of the construction of the soil gas probe.

Additional saturated towels were set near all aboveground sample train connections to ensure there were no leaks in the aboveground fittings as well. The towel used for the leak detection was reused between samples and refreshed with the liquid compound prior to each purging and sampling event. In instances where the purging and sampling collection took longer than five minutes in duration, the liquid tracer was reapplied to the cloth or steps were taken to contain the compound within an enclosure.

Probe vacuum was monitored during purging to remain less that 100-inches of water column and a flow rate of 100 to 200 milliliters per minute (mL/min) was maintained and recorded during purging and sampling. A purge volume test was conducted using 1, 3, and 10 purge volumes. The purge volume calculation included the vapor probe tip and tubing and 40% sand porosity and 50% dry bentonite porosity as inputs. Based on laboratory analytical results, the chosen representative purge volume was one (1) purge volume.

A total of eight vapor samples including four primary samples (two from each depth-discrete probe), one replicate sample, an additional replicate sample for fixed-base laboratory analysis,

and two additional analyses (for the purge volume test), were analyzed for VOCs according to EPA Method TO-15. The replicate sample location and interval (SG2-15') were chosen at random. The soil gas probe locations are presented in Figure 4A.

6.5.3 Sample Handling Procedures

As noted above, the soil gas samples collected in a syringe by H&P were immediately transferred to the mobile lab for direct injection into a gas chromatograph for analysis of VOCs. COC records were used to document sample collection and laboratory analysis.

To identify and manage the Summa canister samples collected in the field, a sample label was affixed to each canister. Each sample label included the following information:

- Project number;
- Site name;
- Sample identification number;
- Sampler's initials; and
- Date and time of collection.

One sample was collected in a Summa canister for analysis at H&P's fixed-base laboratory for data validation and confirmation purposes. Following collection and labeling, the sample was immediately placed in a secure location within the mobile laboratory for temporary storage. COC records were used to document sample collection and shipment to the fixed-base laboratory for analysis.

6.5.4 Soil Gas Analytical Procedures

Onsite and fixed-base laboratory analytical services for the soil gas survey were provided by H&P. H&P's mobile laboratory is a California State-certified mobile laboratory. The following samples (including field quality control [QC] samples) were collected and analyzed as part of the PEA soil gas sampling effort:

- Seven (7) soil gas samples for VOCs by EPA Method TO-15, and
- One soil gas sample (in Summa canister) for VOCs by EPA Method TO-15 by fixed-base laboratory.

6.5.5 Soil Gas Analytical Results

VOCs were detected in each of the eight soil gas samples analyzed. The following VOCs were detected:

- Benzene (non-detect [less than 3.2 micrograms per cubic meter [[µg/m^3]]) to 17 µg/m^3;
- Tetrachloroethene (non-detect [less than 34 µg/m^3]) and 28 µg/m^3 in SG2-15-Con (fixed-base laboratory sample) to 51 µg/m^3;
- Carbon Tetrachloride (non-detect [less than 6.4 µg/m^3]) to 16 µg/m^3;
- 2-Butanone (non-detect [less than 30 µg/m^3]) to 76 µg/m^3;

- 4-Methyl-2-Pentanone (non-detect [less than 30 µg/m^3]) and 8.4 µg/m^3 (fixed-base laboratory sample) to 100 µg/m^3;
- O-Xylene (non-detect [less than 22 µg/m^3]) and 16 µg/m^3 (fixed-base laboratory sample) to 51 µg/m^3;
- Total Petroleum Hydrocarbons by Volume (TPHv, C_5-C_{12}) (non-detect [less than 500 µg/m^3]) to 1,300 µg/m^3;
- Acetone (non-detect [less than 24 µg/m^3]) to 300 µg/m^3; and
- 1,1-Difluoroethane (1,1-DFA) (non-detect [less than 5.5 µg/m^3] to 220 µg/m^3.

No other VOCs were detected using EPA Method TO-15.

6.5.6 Soil Gas Probe Abandonment

As previously mentioned, two dual-nested semi-permanent soil gas probes were installed at the noted locations. TRC developed preliminary soil gas screening levels in accordance with the values cited in DTSC HERO HHRA Note Number 3, Table 3 (DTSC, 2015). The soil gas screening levels were specifically defined by this reference or based on the EPA RSLs (EPA, 2015) in accordance with DTSC guidance and adjusted using an attenuation factor in accordance with the Guidance for the Evaluation and Mitigation of Subsurface Vapor intrusion to Indoor Air, DTSC and CalEPA October 2011. The soil gas screening levels for the encountered VOCs are presented in Table 5.

All soil gas laboratory analytical results were below the soil gas screening levels (VOC-specific) presented in Table 5 – Summary of Soil Gas VOC Concentrations, therefore, the soil gas probes were abandoned. The abandonment of each soil gas probe consisted of removal of the probe and tubing, filling the boring hole with bentonite, hydrating the bentonite, and patching the cored hole with asphalt patch to match the existing surface.

6.6 Investigation Derived Waste

TRC conducted lawful off-Site disposal of all personal protective equipment, totes, and miscellaneous materials used to complete the PEA investigation activities. Soil generated during boring advancement and sampling activities was returned to the boring upon completion of sampling. A small quantity (one drum) of asphalt, base, soil, and decontamination water was generated as investigation derived waste (IDW). The IDW generated during the investigation was temporarily stored in labeled, DOT-approved 55-gallon drums. The drum of IDW waste was profiled and transported under a non-hazardous waste manifest to U.S. Ecology in Beatty, Nevada. The waste manifest is presented in Appendix C. Handling of IDW and associated containers was in strict compliance with Federal, State, and local regulations, statutes, and ordinances.

6.7 Discussion of Results

The laboratory analytical results indicate that TPH and VOCs were not detected in any of the soil samples collected during the PEA investigation. Low concentrations of OCPs (notably 4,4'-DDT) were detected in a portion of the shallow soil samples collected during this investigation. However,

no OCPs were detected in any soil samples at concentrations in excess of human health-based soil screening levels.

As would be expected for these naturally-occurring elements, arsenic and lead were detected in all of the soil samples analyzed. Specifically, arsenic was detected in all eighty-seven samples collected from the Site (including 78 parent and 9 duplicate samples). Of these samples, five contained arsenic at concentrations in excess of the background screening level of 12 mg/kg. Soil borings containing arsenic concentrations in excess of 12 mg/kg at 0.5 fbg include BD6 (18.4 mg/kg), A2 (13.7 mg/kg), B3 (20.2 mg/kg), and F2 (14.7 mg/kg). Additional step-down sampling performed at 1 fbg in Borings BD6, A2, B3, indicate that the arsenic concentrations in excess of the background screening level were limited to the upper six inches of soil. Additional step-out and step down sampling performed at F2 indicates that arsenic concentrations in excess of 12 mg/kg are limited to the upper twelve inches of soil and are of limited lateral extent to the north, south, east, and west. Based on the low arsenic concentrations and limited depth (6 inches) of impact in Boring BD6, A2, and B3, step-out boring were not advanced in these areas. The arsenic impacts in this area were considered minimal and isolated.

Based on the laboratory analytical results of all soil samples collected during this investigation, the calculated 95% upper confidence level (UCL) of the mean for arsenic per the US EPA's ProUCL software is 5.67 mg/kg (see Appendix. The 95% UCL for arsenic is below DTSC established screening value of 12 mg/kg. Based on this information, arsenic is considered to be present at concentrations within the range of anticipated background concentrations and is excluded from quantitative analysis in the screening health risk assessment (See Section 7.4). It should be noted that removal of soil containing arsenic concentrations in excess of 12 mg/kg should be contemplated.

Total lead was also detected in all sixty-four samples collected from the Site (including 57 parent and 7 duplicate samples). Of these samples, seven contained lead at concentrations in excess of the residential health-based screening criteria of 80 mg/kg. Soil samples containing lead concentrations in excess of 80 mg/kg at 0.5 fbg include BD4-N (100 mg/kg), BD15-Eb (850 mg/kg), BD15-EbN (1,100 mg/kg), BD15-EbE (230 mg/kg), BD15-EbS (650 mg/kg), and BD15-Wa (83 mg/kg). The step-out sample collected in the vicinity of BD15-Eb (i.e., BD15-EbE at 1 fbg), contained lead at a concentration of 84 mg/kg, slightly in excess of the soil screening criteria. Additional step-out borings and step-down analyses including analysis for STLC and TCLP indicates that a small portion of the planter on the western side of Building 15 contains STLC lead concentrations in excess of 5 mg/L. However, the TCLP lead concentrations were below 5 mg/L. Lead impacted soil north of Building 4 also contained lead STLC lead at a concentration in excess of 5 mg/l.

The laboratory analytical results indicate that very low concentrations of VOCs are present in soil gas at the Site. The detectable VOC concentrations were reported in soil gas in the vicinity of the former fuel and service station in the southwestern portion of the Site (Soil Gas Probes SG1 and SG2). The source of the detectable VOC concentrations may be related to activities at the former fuel and service station located at in the southwestern portion of the Site. PCE, benzene, and other VOCs were reported in several samples. However, none of the VOCs were detected in soil gas in excess of their respective health-based soil gas screening levels. The results obtained from the fixed-base laboratory soil gas confirmation sample (SG2-15-Con) were consistent with the parent sample (SG2-15') with the exception of acetone, which was not detected in the

confirmation sample. The presence of acetone in the mobile laboratory analyzed sample may be an indication of cross contamination for this analyte.

The following section provides an overview of the human health screening evaluation performed as a component of this analysis.

7.0 SUPPLEMENTAL SAMPLING ACTIVITIES AND RESULTS

During the PEA investigation, areas of arsenic and lead impacts in uncapped, exposed portions of the Site (i.e., Boring B3 and Building 14, respectively) were identified (see Figure 6). The initial sampling activities did not characterize the lateral extent of lead impacted soil east of Building 14. TRC conducted limited supplemental site assessment activities, which consisted of advancing borings and collecting soil samples for lead analysis, along the eastern side of Building 14, in preparation for potential removal of the exposed lead impacted soil in this area.

7.1 SUPPLEMENTAL SITE ASSESSMENT ACTIVITIES

On November 11, 2105, TRC conducted supplemental site assessment activities which consisted of advancing borings using a hand auger and slide-hammer sampler and collecting soil samples for lead analysis along the eastern side of Building 14. Soil impacted with lead (California Hazardous) was identified in the northeastern corner of Building 14 during the initial field investigation that required further characterization. All soil samples were collected using a hand auger and slide-hammer sampler. Soil sampling protocol from advancement to submittal to the laboratory was consistent with the procedures and protocols described in Section 6.

Based on the lead impacts identified during the initial PEA investigation, TRC advanced six soil borings (BD14-Ea through BD14-Ef) along the eastern side of Building 14. The soil borings were advanced approximately 20 feet apart and were adjusted, as necessary, to avoid conflicts with the existing irrigation system, utilities, and subsurface structures. The supplemental site assessment activities consisted of the following:

- Marked the boring locations and notified USA a minimum of 48 hours prior to intrusive activities.
- Collected soil samples at the six boring locations from depths of 0-6 inches and 6-12 inches below grade along the eastern side of Building 14 using a slide-hammer sampler and stainless steel sleeves consistent with the soil sampling protocol presented in Section 6.
- Analyzed the upper soil samples for total lead by EPA Method 6010B and those samples with lead concentrations greater than 50 mg/kg for lead STLC. Select soil samples were also analyzed for lead TCLP. If the upper soil sample exceeded 80 mg/kg to total lead, then the deeper one-foot sample was also analyzed.
- All soil samples were submitted to ATL, a California-state certified laboratory, for analysis.

7.2 SOIL MATRIX ANALYTICAL RESULTS

The laboratory analytical results indicated that lead-impacted soil was present on the eastern side of Building 14. The results are summarized as follows:

- Total lead concentrations ranged from 13 to 1,100 mg/kg.

- Lead STLC concentrations ranged from 7.9 to 50 milligrams per liter (mg/L).
- Lead TCLP concentrations ranged from 0.32 to 4.2 mg/L.

Based on the laboratory analytical results, the majority of the soil encountered along the eastern side of Building 14 would be considered non-RCRA Hazardous Waste following removal (all soil samples analyzed for lead STLC exceeded 5.0 mg/L). In addition, no soil samples exceeded 5.0 mg/L for lead TCLP analysis, therefore, the soil would not be considered RCRA Hazardous waste following removal. The lead laboratory analytical results for Building 14 samples are presented in Table 3 and Figure 6.

7.3 REMEDIAL ALTERNATIVES

In order to address the arsenic and lead impacted soil in the uncapped and exposed portions of the Site, TRC considered several alternatives. Various potentially feasible remedial technologies for remediation of the impacted soil beneath the Site are available and were reviewed. The following criteria were considered while selecting a remedy:

- Technical analysis for effectiveness, practicality, and reliability.
- Ability to remove the constituents of concern (COCs) from shallow soils.
- Other considerations, including anticipated time to reach the desired cleanup levels.
- Site-specific conditions such as depth and types of contamination present beneath the Site, soil properties, and soil stratigraphy.

Based on the COC physical and chemical properties and the extent of impact, the following general remediation alternatives or process options were considered for the Site:

1) no further action,
2) institutional controls,
3) partial removal/soil containment/institutional controls,
4) excavation/off-site disposal.

Based on the fact that the soil resides in open areas accessible to students, faculty, and site visitors and the results of the comparative analysis, Alternative 4 - Soil Excavation and Off-site disposal was the preferred and recommended removal action alternative for addressing the site. Even though this is the most expensive of the alternatives analyzed, this alternative was selected because of the ease of implementation, general acceptance, and being the most protective of human health and the environment.

This alternative has been implemented with success on previous projects many times in the past and would be acceptable to the state regulatory offices with potential jurisdiction (i.e., DTSC). Given that soil excavation would permanently remove near-surface, lead-impacted soil in the vicinity of Building 14 and arsenic impacted soil in the vicinity of Boring B3, it is unlikely that the surrounding community or citizen activist groups would be opposed to this alternative.

8.0 INTERIM SOIL REMOVAL ACTIVITIES

Based on the PEA soil-sampling program and supplemental site assessment results on the eastern side of Building 14, there were three separate areas where soil excavation was proposed. These areas include:

- Arsenic-affected soil in the northeastern to middle portion of the Site in the vicinity of boring B3 (see Figure 6).
- Lead-affected soil in the northern and eastern portions of the Site in the vicinity of borings BD-4N and BD14-Ea through BD14Ef (see Figure 6).

Borings B3 and BD14a through BD14f are located in “open” areas which are accessible to students, faculty, and onsite personnel (see Figure 6). Because soil in these areas is exposed and represents a potentially complete exposure pathway to current students and faculty, removal of the soil in these areas was performed by Parsons, on behalf of the LAUSD, during the most recent school break (Winter 2015). The soil located near BD4N is covered with concrete and does not pose an immediate threat of exposure to students, faculty, and personnel. Consequently, soil in this area will remain in place and may be removed in the future as a component of the scheduled school renovations and improvements for 2016. The soil removal activities are fully detailed in the Parson’s Soil Removal Report dated February 26, 2016 (Appendix D). A summary of the soil removal activities is presented below:

- The proposed excavation areas were marked in white paint on December 23, 2015 and Underground Services Alert (USA) was notified a minimum of 48 hours prior to initiating soil;
- On December 28, 2015, the proposed excavation areas were cleared for underground utilities and other potential subsurface structures by a geophysical survey that was conducted by GeoVision, Inc., a licensed geophysical survey contractor based in Corona, California.
- Soil excavation activities consisting of hand digging and mechanical excavation were conducted during Winter Break 2015 from approximately December 28, 2015 to January 4, 2016 ;
- A 3 foot (ft) by 3 ft area in the northwest portion of the grass field on the playground in the northwest portion of the Site, near Boring B-3 was excavated.
- Facing South Harvard Boulevard, an approximately 72 ft by 6 ft area on the east side of Building 14, south of the walkway was excavated.
- Facing South Harvard Boulevard, an approximately 64 ft by 5 ft area on the east side of Building 14, north of the walkway was excavated.
- Subsequently step-out and step-down excavations were completed based on the results of the initial confirmation samples with the vertical limits of excavation ranging from 1.5 fbg to 2.5 fbg depending on analytical results and obstructions (tree roots, building footing, and utility and drain pipes).

- Approximately 58 cubic yards (80 tons) of arsenic and lead-impacted California-hazardous (i.e., non-RCRA hazardous) soil were removed east of Building 14.

- The areas were backfilled with clean soil on January 4 and 7, 2016.

- Landscape restoration activities occurred on January 18, 2016.

9.0 HUMAN HEALTH SCREENING EVALUATION

9.1 Introduction

The PEA screening evaluation for human health effects involves identifying potential chemicals of concern, and comparing a calculated dose for these chemicals to health-based levels developed by EPA and DTSC. For the purpose of the PEA screening evaluation, potential exposures, doses, and risks were evaluated for three potential onsite receptors, including hypothetical residential, onsite worker, and construction worker exposure scenarios. For the purpose of this analysis, the human health screening evaluation was performed utilizing data representing current site conditions (i.e. following completion of interim soil removal activities).

Exposure to chemicals can only occur if there is a complete pathway by which chemicals in site soil, water, or air can be contacted by humans. Therefore, the evaluation of exposure pathways is the first step in the human health screening evaluation. Potential dose and risk are then calculated based on an evaluation of potential exposure concentrations of chemicals of concern, and the toxicity of the chemicals. The findings of the human health screening evaluation are summarized in the risk characterization summary. The uncertainty section presents factors in the risk assessment that may result in an overestimation or underestimation of risk for risk management consideration. Risk and hazard estimates based on the 95th percentile of the upper confidence limit of the arithmetic mean (95% UCL) concentrations are also presented in the discussion of uncertainty.

9.2 Exposure Pathways and Media of Concern

9.2.1 Conceptual Site Model

As discussed in Section 2.0, the Site is developed as the FLC campus and consists of three separate properties including the Main Campus, Small Campus, and Parking Area. Collectively, the three properties described (Main Campus, Elementary Village, and Parking Area). Proposed future modernization of the FLC campus will include removal and replacement of certain existing site structures and reconfiguration of the parking lots, playfields, hardcourts and common space areas. Once the site development activities are completed, it is anticipated that the current ground surface will be covered with buildings, parking areas, landscaped areas, and pavement.

In reality, the potential for direct contact with soil under either existing or anticipated future site conditions is expected to be minimal. Consistent with agency guidance for baseline risk assessments, it was assumed that the Site will be uncovered and that bare soils will be available for contact for the purpose of the screening human health evaluation. Consequently, children attending the school, certain school staff, and workers engaged in construction activities could potentially be exposed to Site chemicals through incidental ingestion, dermal contact, and

inhalation of vapors and particulates from chemicals in soil. In accordance with PEA guidance, exposures to chemicals at the Site were evaluated assuming hypothetical residential exposures. Potential school staff and construction worker exposures were also evaluated for the same exposure pathways.

Figure 5 presents the conceptual site model (CSM) for the Site.

9.2.2 Soil Exposure Pathways

Chemicals of potential health concern detected in soil at the Site include OCPs and metals. While the current Site conditions (i.e., presence of flatwork and buildings over the majority of the Site surface) would serve to limit the frequency or duration of potential soil exposure pathways, potential contact with soil by students, staff, and or construction workers may occur. For chemicals in soil, potentially complete exposure pathways include dermal contact with soil and incidental ingestion of soil.

9.2.3 Water Exposure Pathways

The shallow groundwater is not a current or proposed source of drinking water for the Site. Therefore, the groundwater exposure pathway is considered to be an incomplete exposure pathway for the purpose of this screening health risk assessment. No permanent surface water bodies occur on the Site or in the near vicinity of the Site. Therefore, exposures to surface water were not evaluated.

9.2.4 Air Exposure Pathways

Several OCPs and metals (i.e., arsenic and lead) were detected in soil samples collected during the PEA investigation activities. In addition, certain VOCs were detected in soil vapor samples collected within the southwestern portion of the Site, in the vicinity of the former gas station located at 3770 South Western Avenue.

For chemicals in soil, potential exposure may occur as a result of particulate erosion from the soil surface and subsequent suspension of particulates in air. This process and the resulting exposure is often referred to as the fugitive dust exposure pathway. Since there are small portions of the Site that are currently unpaved and future renovation activities will result in additional removal of flatwork, potential exposures to chemicals through the fugitive dust pathway warrant quantitative evaluation for the chemicals of potential concern (COPCs) at the Site.

The presence of VOCs in soil gas beneath the southwestern portion of the Site could result in diffusion of vapors through soil and into overlying buildings or into ambient air. While there are no occupied structures currently located on this portion of the Site, the vapor intrusion pathway represents a potentially complete exposure pathway. Given that potential exposures for the vapor intrusion pathway are generally higher than exposures that may occur through diffusion of vapors to outdoor air, quantitative evaluation of the indoor air exposure pathway for VOCs represents a reasonable and conservative measure to evaluate the significance of exposure to VOCs in outdoor air.

9.2.5 Summary of Selected Exposure Pathways

For the purpose of this PEA screening evaluation, receptors including a hypothetical resident, school worker, and construction worker were assumed to be exposed to OCPs and lead in Site soil through direct dermal contact, incidental ingestion, and inhalation of airborne particulates. Potential exposures to the hypothetical resident and school worker were also evaluated for indoor air, based on the detection of VOCs in soil gas samples.

9.3 Exposure Parameters

Exposure parameters are quantitative estimates of the frequency, duration, and magnitude of exposure to soil based on information contained in DTSC and USEPA guidance, as well as professional judgment. The exposure parameters were selected from DTSC (2014) and USEPA (2009 and 2011) guidance. Appendix E, Table E-3 presents the exposure assumptions that were used in this screening health risk assessment for the residential receptor, occupational worker, and construction worker.

Common Exposure Parameters

The exposure frequency represents the number of days a year a receptor may be expected to be exposed to COPCs. The exposure frequency for residential receptors is 350 days per year, which is assumed to be 7 days per week for 50 weeks per year (DTSC, 2014). The exposure frequency for the occupational and construction worker is 250 days per year, which assumes 5 days per week for 50 weeks per year (DTSC, 2014).

The exposure duration for child residential receptors is 6 years and for an adult is 20 years, for the occupational worker is 25 years, and for the construction worker is 1 year (DTSC, 2014). The average body weight for an adult receptor is 80 kilograms (kg) and for a child is 15 kg (DTSC, 2014).

The averaging time parameter averages exposure over a period of time. For non-carcinogenic effects, the averaging time is based on the exposure duration multiplied by 365 days per year. The averaging time for non-carcinogenic effects for a child residential receptor is 2,190 days, for an adult receptor is 7,300 days, for an occupational worker is 9,125 days, and for a construction worker is 365 days (DTSC, 2014). The averaging time for carcinogenic effects is based on a lifetime exposure of 70 years multiplied by 365 days/year for 25,550 days (DTSC, 2014). When calculating carcinogenic risk, the total intake of a chemical over a lifetime is used. For the residential exposure scenario, the total chemical intake includes the sum of the intake for 6 years as a child and 20 years as an adult.

Inhalation Exposure Parameters

The exposure time represents the amount of time in a day that a receptor may be exposed to either fugitive dust via inhalation, ambient air, or indoor air. The exposure time for a residential receptor assumes a full day exposure, and an occupational and construction worker assumes an 8 hour work day (DTSC, 2014). A quantitative estimate of potential exposure through inhalation of vapors in indoor air was not performed for the occupational or construction worker scenarios.

Incidental Soil Ingestion Exposure Parameters

The ingestion rate represents the amount of soil a receptor may accidently ingest in a day at the Site. The ingestion rate for an adult residential receptor is 100 milligrams per day (mg/day) and 200 mg/day for a child. The ingestion rate for an occupational worker assumes 100 mg/day, and a construction worker is 330 mg/day (DTSC, 2014).

Dermal Contact with Soil Exposure Parameters

The skin surface area represents how much skin is exposed for dermal contact with soil. The surface area is 6,032 square centimeters (cm^2) for the adult residential receptor, occupational worker, and construction worker and 2,900 cm^2 for a child residential receptor (DTSC, 2014).

The soil-to-skin adherence factor represents how much soil will remain on the skin after direct contact with the soil is no longer available. The soil-to-skin adherence factor is 0.2 milligrams per square centimeter per day (mg/cm^2-day) for the child residential receptor and occupational worker, 0.07 mg/cm^2-day for an adult residential receptor, and 0.8 mg/cm^2-day for a construction worker (DTSC, 2014).

Particulate Emission Factor

The particulate emission factor (PEF) relates the contaminant concentration in soil with the concentration of respirable particles in the air due to fugitive dust emissions from the surface of the Site (USEPA, 1991b). The PEF was derived using the following equation:

$$PEF = \frac{LS \times WS \times MH \times 3600_{\ s/hr}}{A} \times \frac{1000_{\ g/kg}}{0.036 \times (1-V) \times \left(\frac{U_m}{U_t}\right)^3 \times F_x}$$

where:

PEF	= Particulate emission factor (cubic meter per kilogram [m^3/kg]);
LS	= Length of soil perpendicular to wind direction (meter [m]);
WS	= Wind speed in mixing zone (meter per second [m/s]);
MH	= Mixing height (m);
A	= Area of Impacted Soil Exposed (meters squared [m^2]);
V	= Fraction of vegetation cover (unitless);
U_m	= Mean annual wind speed (m/s);
U_t	= Threshold wind speed (m/s); and
F_x	= Function specific to model (unitless).

The area of impacted soil is calculated as a roughly rectangular shaped area located approximately 750 feet in length and approximately 530 feet in width. This area is roughly equivalent to the dimensions of the Main Campus. The PEF is calculated in Appendix E, Table E-4.

9.4 Selection of Chemicals of Potential Concern

Chemicals of Potential Concern (COPCs) include constituents that are present in soil and soil vapor that may result in adverse health effects under the defined conditions of exposure. The PEA sampling activities included a subset of laboratory analytes for metals (e.g., arsenic and lead), that occur naturally at the Site. Tables 3 through 5 summarize the laboratory analytical results of chemicals detected in soil and soil gas at the Site.

The Site data were subjected to a statistical analysis to determine the 95 percent upper confidence limit (95% UCL) (α = 0.05) of the mean concentration. Soil samples that were located in the interim soil removal areas described in Section 8 were excluded from the data set. The most current statistical program and guidance from USEPA (currently ProUCL 5.0.00) (USEPA, 2013a) was used to calculate the 95% UCL. ProUCL provides guidance and a range of parametric and nonparametric methodologies for handling datasets of different distributions, left-censored datasets, identification of outliers, datasets with non-detect values, and treatment of datasets with small sample sizes. The appropriate ProUCL method ultimately used depends on the characteristics of each data set. The results of the statistical analysis are provided in Appendix F. Appendix E, Table E-1 presents a descriptive statistical summary of the COPCs that were detected in soil samples obtained as a component of the PEA investigation. Specifically, Table E-1 includes a summary of the number of soil samples analyzed (including duplicates), frequency of detection, range of non-detect values, minimum and maximum detected concentrations, arithmetic mean, and 95% UCL of the mean concentration for each chemical detected

Arsenic detected in soil was evaluated to determine if the concentrations detected were consistent with “background” conditions (i.e., conditions unaffected by site-related activities). The calculated 95% UCL concentration for arsenic is 5.26 mg/kg. The 95% UCL for arsenic is below DTSC established screening value of 12 mg/kg. Based on this information, arsenic is considered to be present at concentrations within the range of anticipated background concentrations and was excluded from quantitative analysis in the screening health risk assessment.

All other COPCs that were detected in soil and/or soil vapor for which relevant toxicological evaluations have been performed were retained for quantitative analysis in the screening health risk assessment.

The concentrations of COPCs at specific exposure points will vary over space and time. However, a single estimate of an Exposure Point Concentration (EPC) is required for risk assessment calculations (USEPA, 1989). This single value must be representative of the average concentration to which a person would be exposed over the duration of the exposure. EPCs generally are estimated using either measured concentrations in environmental media or developed using fate and transport models. Independent EPCs were developed for each medium at the Site. For COPCs in soil, the EPC of measured data are calculated as the 95% UCL of the arithmetic mean.

Chemical concentrations in soil vapor were used to estimate concentrations of COPCs in indoor air. To conservatively include potential risks related to inhalation of indoor air in the screening health risk assessment, the maximum soil vapor concentration was used as the basis for estimating the COPC concentration in indoor air. Indoor air EPCs were calculated by multiplying the maximum detected soil vapor concentration by a default attenuation factor of 0.001 for a future residential building (DTSC, 2011).

9.5 Toxicity Values and Summary Tables

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

9.5.1 Carcinogenic Effects

In human health risk assessment, a slope factor is used to estimate an upper-bound probability of an individual developing cancer as a result of a lifetime of exposure to a particular level of a potential carcinogen. Specifically, a slope factor is a plausible upper-bound estimate of the probability of a response per unit intake of a chemical over a lifetime and is usually the 95% UCL of the slope of the dose-response curve expressed in $(mg/kg\text{-}day)^{-1}$ for non-inhalation pathways and $(\mu g/m^3)^{-1}$ for inhalation pathways.

For carcinogenic COPCs, toxicity criteria were selected from the Office of Environmental Health Hazard Assessment (OEHHA) Toxicity Criteria Database. If no OEHHA toxicity criteria were available, toxicity criteria were selected from USEPA Integrated Risk Information System (IRIS) or USEPA Regional Screening Level Table (USEPA, 2016). Carcinogenic toxicity criteria for the COPCs are presented in Appendix E, Table E-6.

9.5.2 Non-carcinogenic Effects

For the evaluation of non-carcinogenic effects, chronic reference doses (RfDs) for the ingestion route and reference concentrations (RfCs) for the inhalation route are used. A chronic RfD (in milligrams per kilogram per day, or mg/kg-day) is an estimate of a daily exposure level for the human population, including sensitive subpopulations that are likely to be without appreciable risk of deleterious effects during a lifetime. The RfC is expressed in units of micrograms of chemical per cubic meter of air ($\mu g/m^3$) and is an estimate of the maximum air concentration that can be present over a specified time period without an appreciable risk of deleterious effects. Chronic reference doses and reference concentrations are generally used to evaluate the potential non-carcinogenic effects associated with exposure periods between 6 years and a lifetime. Non-carcinogenic toxicity criteria for the COPCs are presented in Appendix E, Table E-6.

For non-carcinogenic COPCs, toxicity criteria were selected according to the following hierarchy of sources:

- The OEHHA's chronic reference exposure levels (RELs) or RfDs from the OEHHA Toxicity Criteria Database (OEHHA, 2016).
- The RfDs/RfCs from IRIS (USEPA, 2016).
- USEPA's Provisional Peer Reviewed Toxicity Values (PPRTVs), as provided for specific chemicals in the USEPA, Regional Screening Level Table (USEPA, 2015); and

- Other toxicity values, as provided for specific chemicals in the USEPA Regional Screening Level Table (USEPA, 2015). Other sources referenced in the USEPA tables include Minimal Risk Levels (MRLs) from the Agency for Toxic Substances Disease Registry (ATSDR); values from the National Center for Environmental Assessment (NCEA); values from New Jersey Department of Environmental Protection (NJDEP); and values from USEPA Health Effects Assessment Summary Tables (HEAST).

9.5.3 Health Effects From Lead Exposures

Traditional risk assessment methodologies rely on the use of dose-response criteria (e.g., Cancer Slope Factors and Reference Doses). The traditional reference dose approach to toxic chemicals is not applicable to lead because most human health effects data are based on concentrations of lead in the blood stream rather than an external dose. Consequently, the potential for lead to cause non-cancer adverse health effects is measured by the level of lead in the blood stream. The concentration of lead in the blood stream is often referred to as the Blood Lead Level (BLL). The BLL represents an integrated measure of internal dose and reflects total exposure resulting from both site related and background sources and is expressed in terms of micrograms of lead per deciliter of blood (µg/dL).

The California OEHHA developed a 1 µg/dL benchmark for source-specific incremental change in blood lead levels for protection of school children and fetuses (OEHHA, 2009). Based on the DTSC's Leadspread model (DTSC, 2011b), a soil/dust lead concentration resulting in a 90th percentile estimate of increase in blood lead of 1 µg/dL was established (i.e., 80 mg/kg). For potential exposures to children, the LeadSpread model can be used to establish the probability of exceeding the 90th percentile estimate of an increase in blood lead concentration of 1 µg/dL. OEHHA recommends that potential exposures to adults, including pregnant women, be evaluated using the USEPA Adult Lead Model (ALM). Regardless of the model used to estimate exposure, an increase in estimated BLL of greater than 1 µg/dL at the 90th percentile estimate would represent an unacceptable exposure and may warrant further evaluation or consideration of additional risk management measures. Conversely, estimated increases in BLL concentrations of less than 1 µg/dL would not exceed the defined point of departure under the characterized exposure conditions and would not warrant additional risk management considerations. For the purpose of this study, lead soil screening levels were developed using the LeadSpread 8 model developed by DTSC (2011b) for the residential receptor scenario and ALM by USEPA for occupational and construction workers.

9.6 Risk Characterization Summary

In this section of the screening health risk assessment, toxicity and exposure assessments were integrated into quantitative expressions of non-carcinogenic hazards and carcinogenic risks. As was previously discussed, the exposure and risk assessment methodology utilized in this analysis accounts for potential exposure to all COPCs.

The estimates of hazard and risk for individual COPCs and exposure pathways are presented numerically in Appendix E, Tables E-7 through E-19, the hazards and risks are summarized on Tables E-20 through E-22 for individual receptors, and Tables E-23 through E-25 presents the BLL estimates. The risk characterization results are presented for each of the receptors considered in this screening health risk assessment.

The following sections provide a summary overview of the cumulative risks associated with the exposure scenarios that were quantified as a component of this evaluation. The cumulative exposures and risks presented in the following sections include the risk contributions from lead, OCPs, and VOCs.

9.6.1 Non-Carcinogenic Health Effects

Potential non-carcinogenic effects are typically evaluated by comparing exposure over a specified time period with a reference dose derived for a similar exposure period. This ratio of exposure to toxicity is referred to as a Hazard Quotient (HQ). The HQ was calculated as follows for each COPC:

Inhalation Pathways:

$$HQ_i = \frac{AAC_i}{RfC_i}$$

Ingestion and Dermal Pathways:

$$HQ_i = \frac{ADD_i}{RfD_i}$$

where:

HQ_i	= Hazard quotient for chemical "i" (unitless);
AAC_i	= Average air concentration for chemical "i" (µg/m^3);
RfC_i	= Inhalation reference concentration for chemical "i" (µg/m^3);
ADD_i	= Average daily dose for chemical "i" (mg/kg); and
RfD_i	= Reference dose for chemical "i" (mg/kg for metals).

In cases where individual COPCs potentially act on the same organs or result in the same health endpoint (e.g., respiratory irritants), potential additive effects may be addressed by calculating a hazard index (HI) as follows:

$$HazardIndex = \sum_{i=1}^{n} HazardQuotient_i$$

where: i = specific health endpoint

A HI or HQ (for effects which are not additive) of less than or equal to 1 (referred to herein as the significance threshold) indicates acceptable levels of exposure for COPCs having an additive effect. In this HHRA, a HI was calculated by summing the HQs for all COPCs, regardless of toxic endpoint, as recommended by agency guidance (USEPA, 1989). This approach is generally believed to overestimate the potential for non-carcinogenic health effects due to simultaneous exposure to multiple chemicals because it does not account for different toxic endpoints (USEPA, 1989).

It should be noted that HQs or HIs greater than 1 do not necessarily mean that adverse health effects will be observed. As discussed in Section 7.4, a substantial margin of safety has been incorporated into some of the RfDs and RfCs developed for the COPCs. Therefore, for these chemicals, adverse health effects may not be observed even if the HQ or HI is much larger than 1.

The following sections summarize the results of the non-carcinogenic risk characterization for each receptor evaluated. The non-cancer hazards estimated for each chemical evaluated are presented on Tables E-7 through E-19 and summarized on Table E-20 for residential receptors, Table E-21 for occupational workers, and Table E-22 for construction workers.

Residential Receptor

The non-cancer HQs and HIs associated with potential exposure by the hypothetical onsite residential receptors are summarized on Table E-20. Non-cancer HQs for incidental ingestion of soil, dermal contact with soil, inhalation of fugitive dust, and inhalation of indoor air are presented in Tables E-7 through E-10. The non-cancer HI for hypothetical residential receptors exposed to all of the COPCs in soil and soil vapor at the Site is 0.025. This value is well below the acceptable HI of 1.0. Consequently, none of the COPCs evaluated via this methodology warrant additional action.

Occupational Worker

The non-cancer HQs and HIs associated with potential exposure by onsite occupational workers are summarized on Table E-19. Non-cancer HQs for incidental ingestion of soil, dermal contact with soil, and inhalation of fugitive dust air are presented in Tables E-12 through E-13. The non-cancer HI for occupational workers exposed to all of the COPCs in soil at the Site is 0.002. This value is well below the acceptable HI of 1.0. Consequently, none of the COPCs evaluated via this methodology warrant additional action.

Construction Worker

The non-cancer HQs and HIs associated with potential exposure by an onsite construction worker are summarized on Table E-21. Non-cancer HQs for incidental ingestion of soil, dermal contact with soil, and inhalation of fugitive dust are presented in Tables E-14 through E-16. The non-cancer HI for construction workers exposed to all of the COPCs in soil at the Site is 0.008. This value is well below the acceptable HI of 1.0. Consequently, none of the COPCs evaluated via this methodology warrant additional action.

9.6.2 Carcinogenic Health Effects

Carcinogenic risks are estimated as the incremental probability of an individual developing cancer over a lifetime as a result of exposure to a potential carcinogen. The slope factor (SF) converts estimated daily intakes averaged over a lifetime of exposure to incremental risk of an individual developing cancer (USEPA, 1989). This carcinogenic risk estimate is generally an upper-bound value since the slope factor is often a 95% UCL of probability of response based on experimental animal data. Lifetime Incremental Cancer risks for COPCs were calculated as follows:

Inhalation Pathways:

$$CR_i = LAC_i \times IUR_i$$

Ingestion and Dermal Pathways:

$$CR_i = LDD_i \times SF_i$$

where:

CR_i	= Lifetime Incremental Cancer risk for chemical "i" (unitless);
LAC_i	= Lifetime air concentration for chemical "i" (µg/m^3);
IUR_i	= Inhalation unit risk factor for chemical "i" (µg/m^3)$^{-1}$;
LDD_i	= Lifetime daily dose for chemical "i" (mg/kg-day); and
SF_i	= Slope factor for chemical "i" (mg/kg-day)$^{-1}$.

The estimated excess cancer risks for each chemical are summed regardless of toxic endpoint to estimate the total excess cancer risk for the exposed individual:

$$CR = \sum_{i=1}^{n} CR_i$$

where: i = specific health endpoint

The USEPA and CalEPA have defined what is considered to be an acceptable level of risk in similar, though slightly different, ways. The USEPA considers one in one-million (1×10^{-6}) to one in ten thousand (1×10^{-4}) to be the target range for acceptable risk (USEPA, 1990a, 1990b). Estimates of lifetime excess cancer risk associated with exposure to chemicals of less than 1×10^{-6} are considered *de minimis,* a risk level that is so low as to not warrant any further investigation or analysis (USEPA, 1990a). Within the state of California, CalEPA and DTSC also generally targets the same range for acceptable risks.

The following sections summarize the results of the carcinogenic risk characterization for each receptor evaluated. The cancer risks estimated for each chemical evaluated are presented on Tables E-7 through E-19 and summarized on Table E-20 for residential receptors, Table E-21 for occupational workers, and Table E-22 for construction workers.

Residential Receptor

The cancer risks associated with potential exposure by the onsite residential receptors are summarized on Table E-18. Cancer risks for incidental ingestion of soil, dermal contact with soil, inhalation of fugitive dust, and inhalation of indoor air are presented in Tables E-7 through E-10.

The upper-bound cumulative lifetime incremental cancer risks for residential receptors potentially exposed to all of the COPCs in soil and soil vapor at the Site is 6 x 10^{-7}. Approximately 61% of the lifetime incremental cancer risk estimate is associated with the inhalation of vapors in indoor air. It should be noted that lifetime incremental cancer risk estimates are based on a hypothetical 24-hour/day exposure. Additional conservatism associated with the inhalation of vapors is introduced by the use of the maximum detected soil vapor concentrations to estimate potential exposure point concentrations in indoor air. Given these sources of conservatism, inhalation of vapors in indoor or ambient air is not considered a significant route of exposure and does not warrant additional mitigation or analysis. The calculated lifetime incremental cancer risk for this

receptor is less than 1 x 10^{-6}. Consequently, none of the COPCs evaluated via this methodology warrant additional action.

Occupational Worker

The upper-bound cumulative lifetime incremental cancer risks associated with potential exposure by onsite occupational workers are summarized on Table E-20. The upper-bound cumulative lifetime incremental cancer risks for incidental ingestion of soil, dermal contact with soil, and inhalation of fugitive dust are presented in Tables E-11 through E-13.

The upper-bound cumulative lifetime incremental cancer risks for occupational receptor potentially exposed to all of the COPCs in soil at the Site is 7 x 10^{-8}. The calculated lifetime incremental cancer risk for this receptor is less than 1 x 10^{-6}. Consequently, none of the COPCs evaluated via this methodology warrant additional action.

Construction Worker

The upper-bound cumulative lifetime incremental cancer risks associated with potential exposure by an onsite construction worker are summarized on Table E-22. The upper-bound cumulative lifetime incremental cancer risks for incidental ingestion of soil, dermal contact with soil, and inhalation of fugitive dust are presented in Tables E-14 through E-16.

The upper-bound cumulative lifetime incremental cancer risks for construction worker receptor potentially exposed to all of the COPCs in soil at the Site is 1 x 10^{-8}. The calculated lifetime incremental cancer risk for this receptor is less than 1 x 10^{-6}. Consequently, none of the COPCs evaluated via this methodology warrant additional action.

9.6.3 Quantification of Exposure to Lead

The BLL for the residential receptor was calculated using the DTSC's LeadSpread 8 Model (Table E-23). For the occupational and construction workers, fetal BLLs were calculated for pregnant workers using the USEPA ALM (Tables E-24 and E-25, respectively). Site-specific parameters were used in the models. The BLLs for each receptor pre- and post-removal for the Site are as follows:

Receptor	Pre-Removal **BLL (ug/dL)**	Post Removal **BLL (ug/dL)**
Residential (Child) Receptor	2.4 ug/dL	0.46 ug/dL
Occupational Worker (fetal)	0.31 ug/dL	0.11 ug/dL
Construction Worker (fetal)	0.31 ug/dL	0.11 ug/dL
Notes: BLL = Blood Lead Level (micrograms per deciliter [ug/dL]) Pre-Removal represents potential exposure prior to completing interim soil removal activities Post Removal represents potential exposure following completion of interim soil removal activities		

Based on current site conditions, the estimated BLL's for residential receptors, adult workers, and fetuses of adult workers are below the acceptable point of departure of 1 ug/dL. Consequently, no additional mitigation or remedial action is warranted for lead-impacted soil.

9.7 Uncertainty Analysis

There is a certain degree of uncertainty in estimating exposures to chemicals in the environment. To account for these uncertainties, the risk assessment methodology was designed to be conservative. Where values are uncertain because of a lack of site-specific data, regulatory agency default values and/or conservative values were used. Specific sources of conservatism associated with this screening health risk assessment are discussed below:

- The exposure assessment performed as a component of this analysis incorporates a number of assumptions regarding the current or future presence of receptors and the frequency and duration of activities that may result in exposure to the receptors. The exposure factors utilized in calculating exposures and risks are intended to provide a reasonable upper-bound estimate of exposure for the receptors and exposure pathways considered. While these assumptions are unlikely to underestimate exposure and risk, alternative assumptions based on average or most-likely conditions could yield lower estimates of exposure and risk. For example, the actual period of time that a residential receptor, occupational worker, or construction worker would be involved in direct contact with soils is anticipated to be substantially less than the exposure frequency and duration utilized in this assessment.
- Some of the toxicity values utilized in this assessment involve the extrapolation of results from animal studies. When the results of these animal studies are extrapolated to humans, safety factors or other conservative assumptions are typically applied to ensure that human health effects are not underestimated. For carcinogenic effects, the risk assessment methodology assumes the absence of a threshold dose.
- Exposures and associated risks resulting from contact with multiple COPCs were conservatively assumed to be additive. Furthermore, the additivity of risk was assumed to apply without regard to health effects endpoints (e.g., target organs, tumor type, toxic endpoint, or mode of action). If the health effects endpoints were considered, the cumulative risks would be lower than the values presented in this assessment.
- Exposure point concentrations for COPCs in fugitive dust were estimated utilizing standardized equations for wind erosion. While this approach is reasonable in the absence of suitable data derived from air sampling and gravimetric analysis, the actual concentrations of dust may be different. In general, the estimated concentrations of COPCs in fugitive dust predicted in this assessment are anticipated to be higher than the actual concentrations.
- Limited soil vapor analytical data was available for use in the quantitative portion of this assessment. In consideration of the paucity of soil vapor data, the maximum concentrations of VOCs detected in soil vapor were used to estimate the concentrations of VOCs in indoor air and/or ambient air. While this approach is reasonable, the approach likely results in higher estimates of exposure and risk for the residential receptor scenario.
- Laboratory analytical data for certain constituents (e.g., select OCPs) included composite, rather than discrete, samples collected around specific building areas. While the use of composite sample results could influence the statistical evaluation for specific COPCs, for the purpose of this analysis, the potential impact is not considered to be significant.

- This assessment presumes that all areas of the Site would be potentially available for contact by the residential, commercial and construction worker receptors. This assumption does not account for the future presence of engineered surfaces, buildings, or the presence of vegetation across the Site. These features could serve to further reduce potential exposures. However, the statistical methodology utilized to establish potential exposure point concentrations of the purpose the quantitative health risk assessment is believed to be reasonable and appropriate regardless of the future Site development activities.

10.0 ECOLOGICAL SCREENING EVALUATION

10.1 Site Characterization

The Site has been disturbed by extensive agricultural activity for a long period of time. Adjacent areas are characteristically developed for residential, or light industrial use. Natural lands in the vicinity of the Site were converted to other uses decades ago. There are no naturally-occurring surface water bodies within a 1-mile radius of the Site. Natural wildlife habitat does not exist within a mile of the Site. Most of the natural organisms on the Site and in the vicinity have been replaced with those typical of urban areas where small patches or edges of disturbed soil persist, typically occupied by hardy, exotic plant species.

The Site and its immediate surroundings are mostly disturbed by either residential or commercial activity. No sensitive native plant species were observed or expected to occur within the Site. For these reasons, a formal ecological risk assessment was not conducted for the Site. The CSM detailing potential sources, secondary sources, transport mechanisms, exposure mediums, and potential human and ecological receptors is presented in Figure 5.

11.0 COMMUNITY PROFILE AND OUTREACH

A formal Community Profile or Public Participation Plan was not implemented as part of this PEA; however, public notification of PEA investigation activities was performed in accordance with the guidance of DTSC and is described in the following section.

11.1 Community Demographic Profile

FLC is within the postal zip code 90018. Based on the 2010 United States Census the following is a demographic profile of the population for this zip code based on race, age, income, language spoken, education, and other parameters.

Population Characteristic	Number	Percent
Race		
Total	49,310	100.0%
White	12,825	26.0%
African American	15,663	31.8%
Asian	1,821	3.7%
Pacific Islander	65	0.1%
Native American	471	1.0%
Two or More Races	2,326	4.7%

Other	16,139	32.7%
Ethnicity		
Hispanic or Latino	29,312	59.4%
Language Spoken		
English		
Spanish		
Other		
Age		
<18	12,944	26.3%
18 to 24	5,321	10.8%
25 to 44	14.626	29.7%
45 to 64	11,265	22.8%
>65	5,154	10.5%
Education		
TOTAL POPULATION (25 and over)		
Did not complete high school		
Completed high school		
Attended college and/or college degree		
Post-graduate degree		
Household Type		
TOTAL HOUSEHOLDS	15,493	100.0
Households with children under 18	5,430	35.0%
Opposite-sex married couple	5,272	34.0%
Female with no male present	3,831	24.7%
Male with no female present	1,698	11.0%
Opposite-sex unmarried couples	1,279	8.3%
Household Income		
<$15,000	12,944	26.3%
$15,000 to $50,000	5,321	10.8%
$50,000 to $100,000	14,626	29.7%
$100,000 to $200,000	11,265	22.8%
>$200,000	5,154	10.5%
Employment		
EMPLOYMENT POTENTIAL	8,085	100.0%
JOB TYPE		
White Collar	5,155	63.8%
Blue Collar	2,930	36.2%

11.2 Public Notification - Fieldwork

Prior to the initiation of PEA field investigation activities, TRC conducted public notification of the scheduled PEA field activities. A PEA Work Notice was prepared and distributed by the Lee Andrews Group, Inc., of Los Angeles, California which described the general school renovations, tentative environmental field work schedule, provided contact information for questions and comments, and potential adverse effects on the neighboring community. The PEA Work Notice was a one page two-sided document with English on one side and Spanish on the other side.

The public notification was executed on March 19, 2015 and consisted of the distribution of the PEA Work notice as follows:

- All current students and previous attendees (approximately 1,502 students) via United States Postal Service (USPS);
- Hand delivered to all FLC faculty and staff (approximately 80) via work mail boxes;
- Hand delivered to all residences and businesses (approximately 170) within the line-of-sight of the FLC.

No inquiries were received as a result of the public notification of fieldwork. The PEA Work Notice and associated Distribution Certification are presented in Appendix G.

11.3 Public Outreach - Report

Once LAUSD determined that this PEA Equivalent Report was suitable for review by the public, notifications were distributed and copies of the draft PEA were placed in repositories and online. The public comment period ran from March 17 through April 18, 2016. Copies of the following are included in Appendix G:

- Notification published on March 17, 2016 in La Opinión (Spanish language newspaper);
- Notification published on March 18, 2016 in the Daily News (English language newspaper);
- Two-sided (English on one side and Spanish on the other) flyer mailed to parents of students, dignitaries, and interested parties and hand delivered to faculty and properties within ¼ mile of the Site;
- Agenda for the Public Meeting held on March 29, 2016 at the Site;
- Transcript of the presentation made at the March 29, 2016 meeting concerning the PEA with questions and answers; and
- April 21, 2016 email from José De Paz describing the only concern received by LAUSD Community relations during the comment period.

Although certain editorial changes (e.g. updating this section) have been made to this report after the public comment period ended, no comments were received that required changes to the draft document prior to the preparation of this final document.

12.0 QUALITY ASSURANCE/QUALITY CONTROL IMPLEMENTATION

The Quality Assurance and Quality Control (QA/QC) Program was implemented in accordance with the QAPP in Appendix C of the PEA Work Plan. Included in the QAPP were sections identifying quality control sample collection requirements and specified data quality objectives (DQOs) for the measurement data. The primary quality control features of the QA/QC program included the collection and analysis of field quality control samples and the data validation.

Quality control samples collected in the field included field equipment blanks, field duplicate samples, and confirmatory soil gas samples as described in Section 6.0 and the QAPP. The data for these quality control samples were reviewed as part of the data validation process, along with laboratory quality control results. Data validation was performed in compliance with the QAPP, using protocol consistent with the USEPA National Functional Guidelines for Laboratory Data Review (Inorganic, USEPA 2014), the USEPA National Functional Guidelines For Laboratory Data Review (Organic, USEPA 2014). Each sample was analyzed for the specified suite of analyses presented in Section 6.0. Data from each of the analyses were evaluated in the following areas based on criteria presented in the standard operating procedures that were included in the QAPP:

- Data completeness;
- Holding times;
- Blanks;
- Laboratory control samples;
- Matrix spike/matrix spike duplicates or sample duplicates;
- Surrogates/internal standards (as applicable)
- Field quality control samples; and
- Compound identification and quantification (qualitative).

12.1 Initial Sampling

During the initial PEA sampling program, the overall data quality is good, and the collected data support the project DQOs summarized in the QAPP. Most results of field duplicate samples indicate appropriate sample collection and handling procedures, and suggest little matrix interference for the sample analyses. The following issues were identified during the course of the validation review:

- The leak check compound (LCC) utilized during soil vapor sampling was 1,1-Difluoroethane and was not detected above the reporting limit (RL) of 27 $\mu g/m^3$ with the exception of sample SG2-5 where 220 $\mu g/m^3$ of the LCC was reported by the mobile laboratory analysis for VOCs plus oxygenates and total petroleum hydrocarbons by EPA Method TO-15. This reported concentration is less than ten times the RL, therefore no corrective action was necessary and no data was qualified.

- Sample DUP10 was analyzed for Total Petroleum Hydrocarbon Diesel Range Organics (TPH-DRO) by EPA Method 8015B(M) past the technical holding time of 14-days, no qualification was necessary since the samples were received by the laboratory properly, preserved on ice, and kept in refrigeration upon receipt.

- Samples BD15-Nb-0.5, BD15-Ea-0.5, and BD15-Eb-0.5 were analyzed for OCPs by EPA Method 8081 past the technical holding time of 14-days, no qualifications were necessary since the samples were received by the laboratory, properly preserved on ice, and kept in refrigeration upon receipt. However, the Matrix Spike (MS) percent recovery was -19.7 for the first column and -14.6 for the second column for 4,4'-DDT which was less than the lower percent recovery acceptance limit of 12-149 for QC Batch B5D0785 (includes these samples). Due to this result, the 4,4'-DDT results for these sample were qualified as "J" or estimated.

- Sample BD23-(E,S,W)-0.5 was analyzed for OCPs by EPA Method 8081 past the holding time of 14-days, however, no qualification was necessary since the samples were received by the laboratory, properly preserved on ice, and kept in refrigeration upon receipt.

- The relative percentage of difference (RPD) between the Total Lead (EPA Method 6010B) results for sample BD24-S-0.5 and it corresponding field duplicate (DUP5) was 105 which was greater than the acceptance limit of 100. Therefore this data pair was qualified as **"J"** based on precision measurement being outside the acceptance limits. The higher of the two values used for the RPD calculation should be reported.

- The Matrix Spike and Matrix Spike Duplicate (MS/MSD) percent recoveries for QC batch 0401151C1 for Total Arsenic (by EPA Method 6020) were reported as 225 and 182, respectively, which were outside the acceptance limits of 80-120. Likewise the RPD for MS/MSD for this QC batch was 21.1 which was outside the acceptance limit of 15. The results for samples analyzed under this QC Batch were qualified as **"J+"** or estimated high since the MS/MSD and MS/MSD RPD were significantly outside the acceptance limits. Samples analyzed under this batch include G6-0.5, G7-0.5, G8-0.5, G9-0.5, H8-0.5, H9-0.5, I7-0.5, I8-0.5, BD6-S0.5, BD6-E0.5, BD7-E0.5, SG-1-0.5, SG-2-0.5, E7-0.5 and G5-0.5.

Data validation flags have been added to those data that did not meet acceptance criteria defined in the QAPP. Data qualified as estimated (J, J+) exhibited some bias during analysis and should be considered an approximate measure of the respective analyte concentration. Qualified data are shown along with all data results in the detailed data tables presented in Appendix H of this report.

12.2 Supplemental Sampling

The supplemental sampling activities complied with the laboratory QA/QC protocols defined in the QAPP. Although data validation was not completed for the supplemental samples, the soil samples were collected using the same protocol and procedures defined in the PEA Work Plan and PEA Report, were analyzed by the same laboratory (ATL), and the laboratory followed the same QA/QC protocols and procedures. Data from each of the analyses in the following areas were consistent with the standard operating procedures that were included in the QAPP:

- Data completeness;
- Holding times;
- Laboratory control samples;
- Matrix spike/matrix spike duplicates;
- Surrogates/internal standards (as applicable); and

- Compound identification and quantification (qualitative).

12.3 Conclusion

Results of the validation indicate that more than 99 percent of the data are useful in characterizing the Site and assessing the human health and ecological risks for the Site.

13.0 HASP IMPLEMENTATION

A comprehensive health and safety plan (HASP) was prepared for the PEA field investigation activities conducted at the Site. The intent of the HASP, was included protocols to be followed during investigation activities and to ensure the health and safety of on-Site project employees, subcontractors, visitors, and the public during all Site work. The HASP identified policy, procedures, and systems to be followed by project personnel, and was required to be followed and signed by TRC employees, subcontractors, vendors, visitors, and agency representatives at the Site.

The HASP was implemented in conjunction with other TRC health and safety programs, including the TRC Injury and Illness Prevention Program (IIPP). In addition, project procedures guided the job safety analysis (JSA) documents created for critical work, safety task assignments used daily to direct that day's activity, as well as additional postings, signs, or informational memos regarding safety.

A copy of the HASP was readily available during field activities. On the morning of each day of field activities, a health and safety meeting was conducted with all Site workers to discuss the health and safety issues and concerns related to the specific work, including safety concerns regarding coordination of investigation activities. All Site workers were required to review and sign the TRC HASP before conducting work at the Site. In addition, Site workers met the training requirements specified in the Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations and Emergency Response (HAZWOPER) Standard (29 CFR 1910.120[e]). A copy of the HASP was presented in Appendix B of the TRC PEA Work Plan dated March 27, 2015.

14.0 FIELD VARIANCES

Following is a summary of variances from the PEA Work Plan, dated March 27, 2015 that occurred during Site activities:

- Proposed soil boring BD15Eb was inadvertently completed near the northeast corner of Building 14 instead of from the southerly one-third of Building 15.
- One of the proposed soil borings (north side of Building 22/23) could not be advanced and sampled due to the close proximity of an electrical line and trench with extensive pea gravel.
- One of the proposed soil borings (BD15-Eb) and one of the step-out borings (BD15-EbN) could not be advanced and sampled to total depth of 3 feet bgs as a result of hand auger refusal due to encountering the building foundation at approximately 1.5 fbg. Samples were collected in each location at the total depth attained.

- During the advancement of boring BD24-E the slide hammer failed and the sampling head was lost in the boring. Samples deeper than 2 fbg were not able to be collected.
- Proposed boring BD27-W could not be advanced to access issues (limited space).
- Step-out borings were to be advanced around borings which encountered COPCs in excess of the screening levels, however, based on the low arsenic concentrations and limited depth (6 inches) of impact in Boring BD6, A2, and B3, step-out borings were not advanced in these areas. The arsenic impacts in these areas were considered minimal and isolated.
- Several equipment blanks associated with the soil samples collected, were prepared from distilled water as opposed to de-ionized water from the laboratory which was not available at the time of sampling. Laboratory analytical results for the equipment blanks indicate that this protocol was not problematic.
- Self-adhesive custody seals were not used, as the samples were transferred directly from field personnel to laboratory personnel and were in the care of TRC field personnel continuously from collection to delivery to the laboratory.
- Six (6) additional soil borings were completed east of Building 14.
- Soil containing elevated levels of arsenic and California-hazardous levels of lead were excavated and properly transported off-site.

15.0 CONCLUSIONS AND RECOMMENDATIONS

15.1 Summary and Conclusions

The FLC is currently a fully operational LAUSD school which is scheduled to undergo modernization and construction activities associated with several Site structures and features. The Site is located in an area that is zoned and developed primarily for residential use. Planned capital improvements to FLC include the removal of modular/portable buildings, removal and replacement of several existing structures, and reconfiguration of the parking lots, playfields, hardcourts, and certain common space areas. In preparation for the school improvements and renovations, LAUSD-OEHS initiated investigation and analysis to identify potential environmental conditions that may warrant consideration or mitigation during the proposed modernization and renovation effort.

The incipient investigation activities included the preparation of a Phase 1 ESA that was performed by Parsons in March 2014. The Phase 1 ESA included research of available site background information, including regulatory agency database lists and agency file searches, did not reveal documentation of any known release(s) of hazardous materials at the Site. Based upon the information derived from the Phase 1 ESA, the Site is not identified as a known hazardous waste disposal site, hazardous substance release site, or landfill, and no hazardous materials pipelines are located beneath or adjacent to the Site. The Phase 1 ESA identified several onsite and offsite RECs.

In consideration of the RECs identified in the Phase 1 ESA and other potentials issues that were not specifically identified in the Phase 1 ESA, TRC prepared a PEA Work Plan for additional site assessment activities that was intended to further characterize and evaluate the following:

- The potential presence of lead from lead-based paint in shallow soil that may potentially be associated with the demolition of former Site structures or related to existing Site structures that are to be removed during the proposed renovation activities.
- The potential presence of organochlorine and inorganic pesticides and herbicides in shallow soil that may be related to historical pesticide or termiticide use.
- The potential presence of VOCs and petroleum hydrocarbons in soil gas along the property line adjacent to the former offsite service station located at 3770 Western Avenue.
- The potential presence of petroleum hydrocarbons and VOCs in soil in the vicinity of the Paint Storage Shed and surrounding area located on the northern portion of the Site.

The initial environmental site assessment activities were conducted between March 28 and April 4, 2015. As part of the intial PEA investigation, TRC completed the following soil and soil gas program:

- Fifty-six (56) arsenic borings (grid borings labeled by grid location) were advanced on an approximate 50-foot grid;
- Four (4) OCP, lead, and arsenic borings were advanced on an approximate 200-foot grid;
- Eleven (11) OCP, lead, and arsenic borings were advanced around the buildings (building borings labeled by building number);
- Thirty (30) OCP and lead borings were advanced around the buildings;
- One (1) VOC boring was advanced near the Paint Storage Shed;
- Two (2) TPH, VOC, and arsenic co-located borings were advanced near the southwestern area of the property, subsequently converted to two (2) soil gas probe locations, sampled, and abandoned; and
- Four (4) arsenic and three (3) lead step-out borings were advanced near borings with respective screening level exceedances.

The results of environmental assessment activities described in this document identified the presence of chemicals in soil that may either occur naturally or are related to historical onsite activities (e.g., arsenic and lead). In addition, other chemicals detected in soil or soil vapor include OCPs potentially related to onsite activities and VOCs in soil vapor that appear to be related to releases from offsite sources (i.e., the former service station located to the southwest of the Site). In general, the laboratory analytical results from the environmental assessment activities indicated that the presence of arsenic, lead, and OCPs is limited to shallow soil. VOCs were detected in soil vapor samples collected along the property line adjacent to the former offsite service station.

The maximum concentration of arsenic detected in soil during this investigation (20.2 mg/kg) was observed in a surficial soil sample obtained from Boring B3. This soil boring is located in a grass play area within the northeastern portion of the Site. In addition, elevated concentrations of lead were detected in shallow soil samples obtained from the planter area located east of Building 14.

Subsequent delineation of lead impacted soil east of Building 14 was performed in November 2015. As part of the supplemental PEA investigation, TRC completed the following additional soil program:

- Six (6) lead borings were advanced east of Building 14 to 1 ft bgs; and

- All soil samples were analyzed for total lead and select soil samples were analyzed for lead STLC and TCLP.

Given that potential exposure to arsenic and lead could occur in localized areas, soil was excavated and removed during the 2015 winter break.

Following completion of the interim soil removal activities, the laboratory analytical results of soil and soil vapor samples collected during the environmental assessment activities were used to perform a screening level human health risk assessment. Based on a statistical analysis of the soil data, arsenic was determined to be present at concentrations that are generally consistent with background concentrations for this naturally occurring element. Given that the site-wide concentrations of arsenic are consistent with generally recognized background levels, arsenic was not retained for quantitative analysis in the health risk assessment. However, all other constituents that were detected in soil and/or soil vapor concentrations were retained for evaluation in the screening level human health risk assessment.

The screening level human health risk assessment was performed for three potential receptors including a hypothetical residential land use scenario, an onsite worker scenario, and a construction worker scenario. The results of the screening level human health risk assessment indicate the following:

- Theoretical blood lead levels for a residential child (more conservative than school-based receptors) went from 2.4 times the goal 1 ug/dL to less than half (0.46 ug/dL) after the interim soil removal action.
- Potential exposures under the hypothetical residential receptor scenario (more conservative than school-based receptors) are below levels that warrant additional action.
- The presence of VOCs detected in soil vapor samples collected near the southwestern property boundary, does not present a significant threat of vapor intrusion to occupants of future buildings that may be constructed in this area.
- Potential exposures to site and construction workers for all COPCs are below levels that would warrant additional action or consideration of risk management measures.

A draft of this report was circulated for public comment between March 17 and April 18, 2016. A public meeting was held on Tuesday, March 29, 2016. Interested parties have had an opportunity to comment on this report and this current version may be considered final.

15.2 Recommendations

The findings of this PEA indicate that, with the exception of localized impacts by lead to shallow soil, the Site has not been significantly impacted by COPCs originating from onsite or offsite sources.

Areas where elevated concentrations of lead were detected in shallow soil included the eastern side of Building 14 (e.g., BD15-Eb, BD15-EbS, BD15-EbE, BD14-Ea to BD14-Ec and BD14-Ed through BD14-Ef) and the area north of Building 4 (BD4-N) to depths of approximately 1 to 2.5 fbg. The exposed soil along the eastern side of Building 14 was removed during the interim soil removal activities described in Section 8. The site-wide 95% UCL of the mean lead concentration under current conditions is approximately 36 mg/kg, well below the DTSC residential screening

value of 80 mg/kg (DTSC, 2015). Lead was detected in one shallow soil sample obtained north of Building 4 (i.e., sample BD4-N) at a concentration in excess of the STLC limit. Given that this area is currently capped with concrete, potential exposure to lead in this area is unlikely to occur under current conditions. However, as a conservative and health-protective measure, TRC recommends that limited soil removal be performed in the vicinity of BD4-N during the future renovation activities. This would include the collection and analyses of additional soil samples from each side and the bottom of the completed excavation (anticipated to be zero to four feet [0-4'] from the building by six feet [6'] long by one foot [1]) deep for a total volume of 0.9 cubic yards).

On a site-wide basis, the concentrations of arsenic detected in soil are considered to be representative of accepted background concentrations. However, soil samples obtained from several locations (e.g., Soil Borings A2, B3, BD6-E, and F2) contained arsenic concentrations in excess of 12 mg/kg. Interim soil removal activities performed during the 2015 winter break resulted in the removal of soil from the area of Boring B3 (location with highest arsenic concentration). Arsenic concentrations in excess of 12 mg/kg that remain onsite are generally limited to the upper six inches of soil in three locations (i.e., A2, BD6-E, and F2) which are currently capped with asphalt or concrete. Given that the areas that contain arsenic concentrations slightly in excess of background levels are capped, potential exposure to arsenic in these areas is unlikely to occur under current conditions. As the soil is non-hazardous and is overall below accepted background levels, TRC concludes no additional work is necessary for arsenic at the Site.

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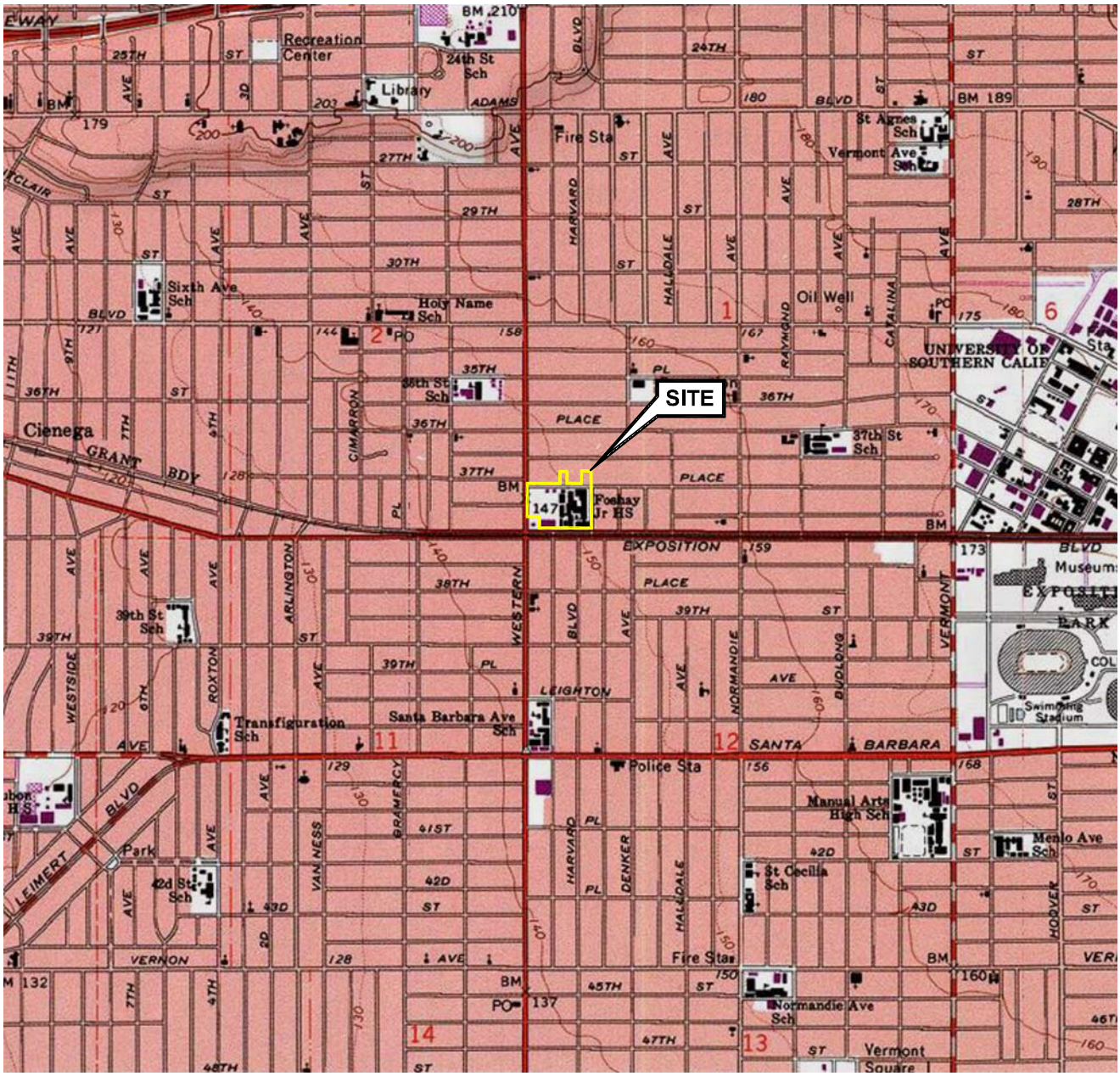
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FIGURES



N

SOURCE:

United States Geological Survey
7.5 Minute Topographic Map:
Hollywood Quadrangle

0 1/4 1/2 3/4 1 MILE

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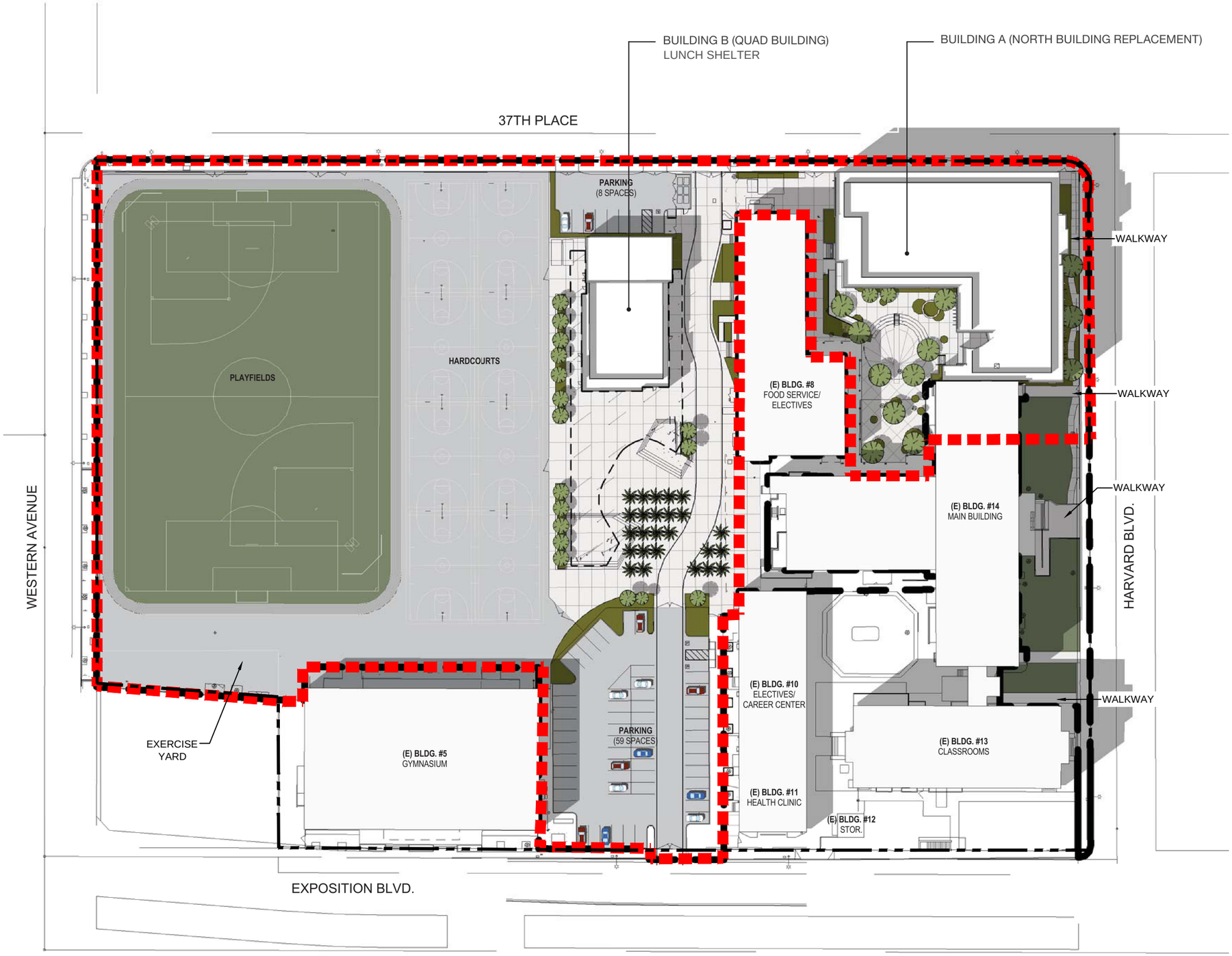
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LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

SITE VICINITY MAP

FIGURE 1

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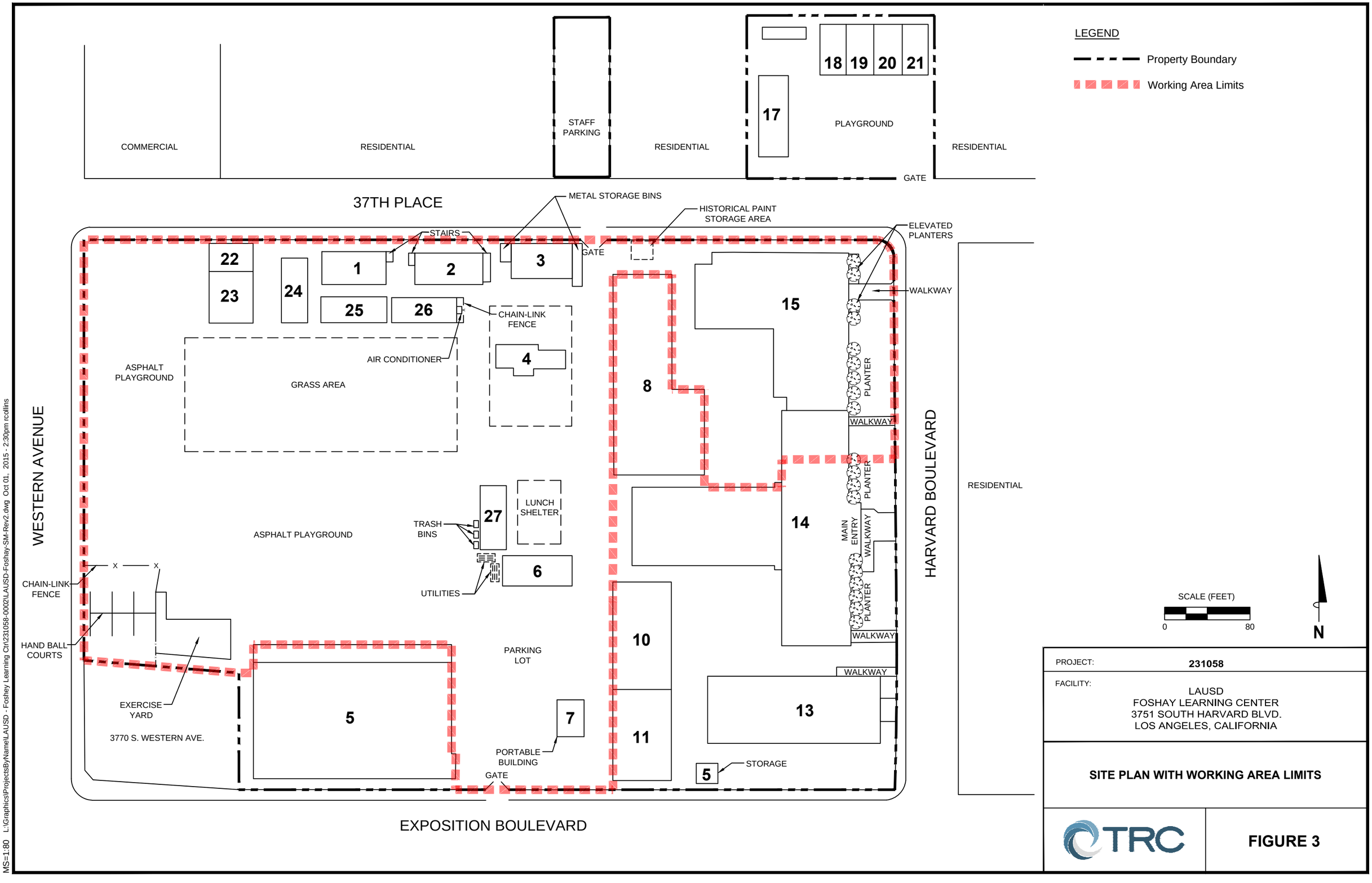
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PROJECT:	**231058**
FACILITY:	LAUSD FOSHAY LEARNING CENTER 3751 SOUTH HARVARD BLVD. LOS ANGELES, CALIFORNIA

PROPOSED SITE PLAN

TRC

FIGURE 2



PROJECT: 231058

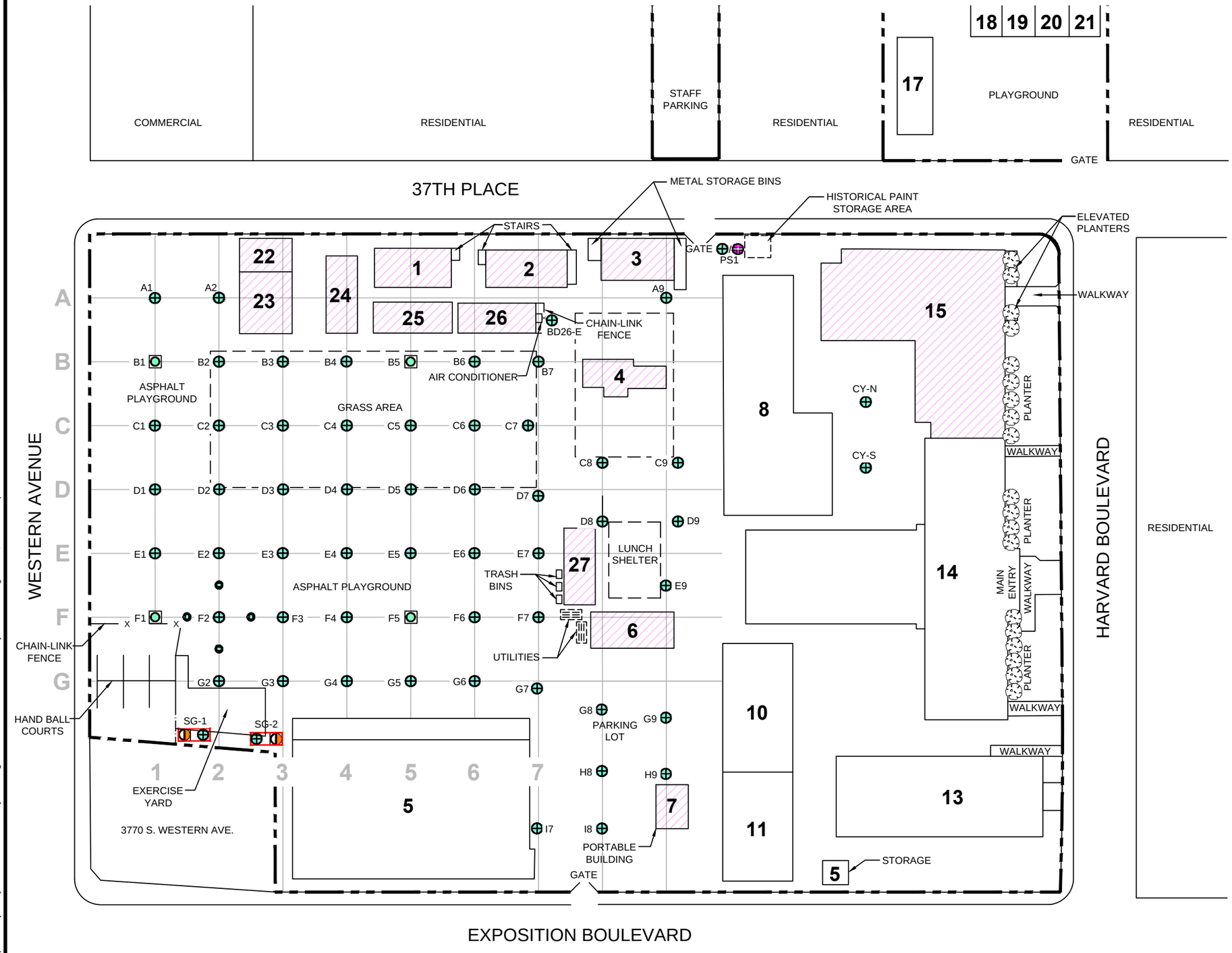
FACILITY:
LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

SITE PLAN WITH WORKING AREA LIMITS

TRC

FIGURE 3

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LEGEND

- Property Boundary
- Building to be Demolished
- I8 — Arsenic Boring Locations (57)
- Arsenic Step-Out Boring Locations (4)
- F5 — OCP, Lead, and Arsenic Boring Locations (4)
- PS1 — VOC Boring Location (1)
- SG-1 — Dual-Nested Soil Gas Probes Locations (2)
- SG-2 — Co-Located Boring(s)

BUILDINGS	
1 - 2	2-STORY MODULAR CLASSROOMS
3	MUSIC CLASSROOM
4	STUDENT STORE / LUNCH SHELTER
5	GYMNASIUM
6 - 7	PORTABLE CLASSROOMS
8	FOOD SERVICE / ELECTIVES
10	CAREER CENTER / ELECTIVES
11	HEALTH CLINIC
12	STORAGE
13	SOUTH CLASSROOM BUILDING
14	MAIN BUILDING
15	NORTH CLASSROOM BUILDING
16	STORAGE
17 - 21	ELEMENTARY CAMPUS PORTABLE BUILDINGS
22 - 27	PORTABLE BUILDINGS
28	ELEMENTARY PORTABLE RESTROOMS

SCALE (FEET)
0 80
N

PROJECT: 231058

FACILITY:
LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

SITE PLAN WITH BORING LOCATIONS

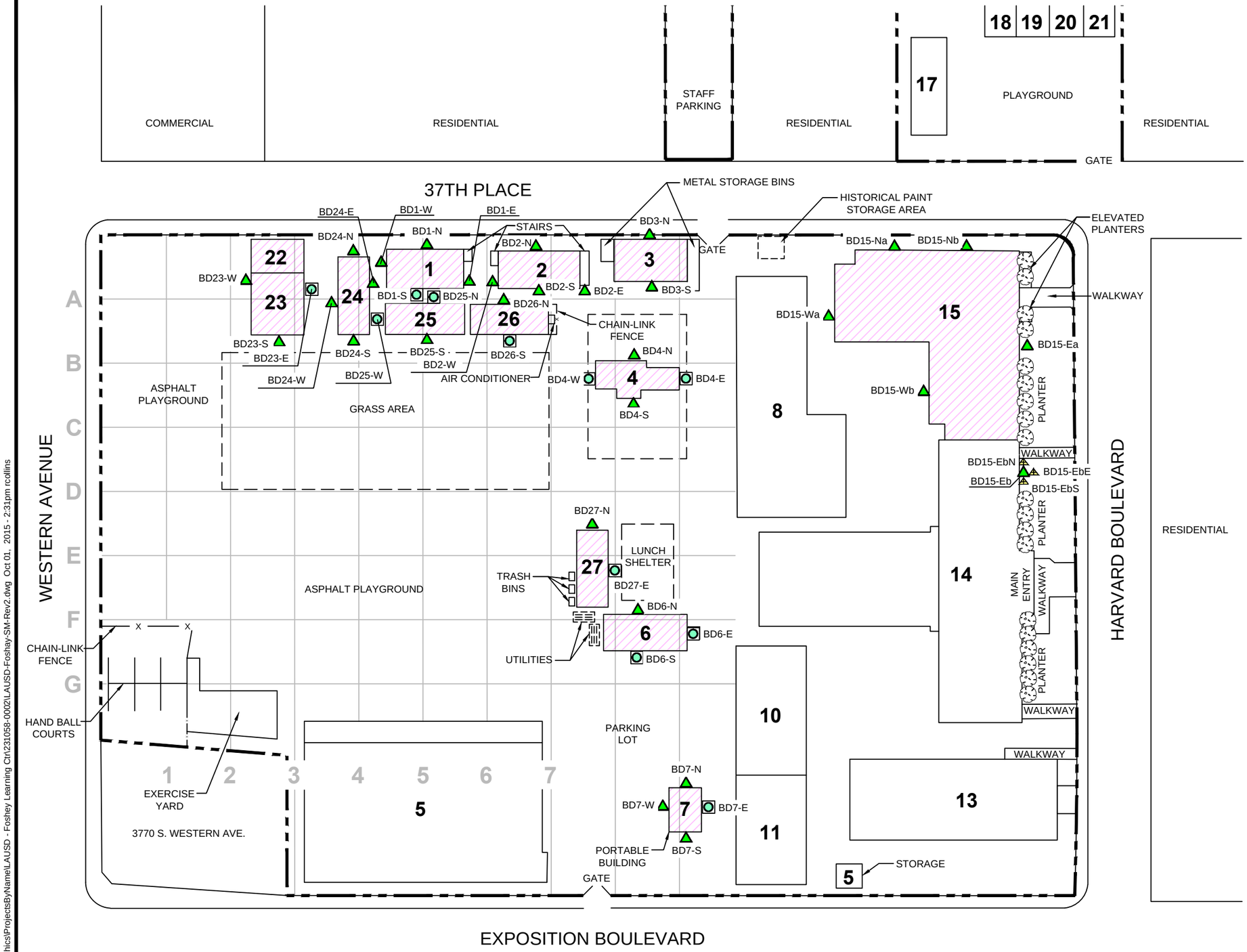
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FIGURE 4A

NOTE:

OCP = organochlorine pesticide. VOC = volatile organic compound.

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LEGEND

- Property Boundary
- Building to be Demolished
- OCP, Lead, and Arsenic Borings Around Buildings (11)
- OCP/Lead Borings Around Buildings (30)
- Lead Step-Out Borings (3)

BUILDINGS	
1 - 2	2-STORY MODULAR CLASSROOMS
3	MUSIC CLASSROOM
4	STUDENT STORE / LUNCH SHELTER
5	GYMNASIUM
6 - 7	PORTABLE CLASSROOMS
8	FOOD SERVICE / ELECTIVES
10	CAREER CENTER / ELECTIVES
11	HEALTH CLINIC
12	STORAGE
13	SOUTH CLASSROOM BUILDING
14	MAIN BUILDING
15	NORTH CLASSROOM BUILDING
16	STORAGE
17 - 21	ELEMENTARY CAMPUS PORTABLE BUILDINGS
22 - 27	PORTABLE BUILDINGS
28	ELEMENTARY PORTABLE RESTROOMS

SCALE (FEET)

0 80

N

PROJECT: 231058

FACILITY:

LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

SITE PLAN WITH BORING LOCATIONS

TRC

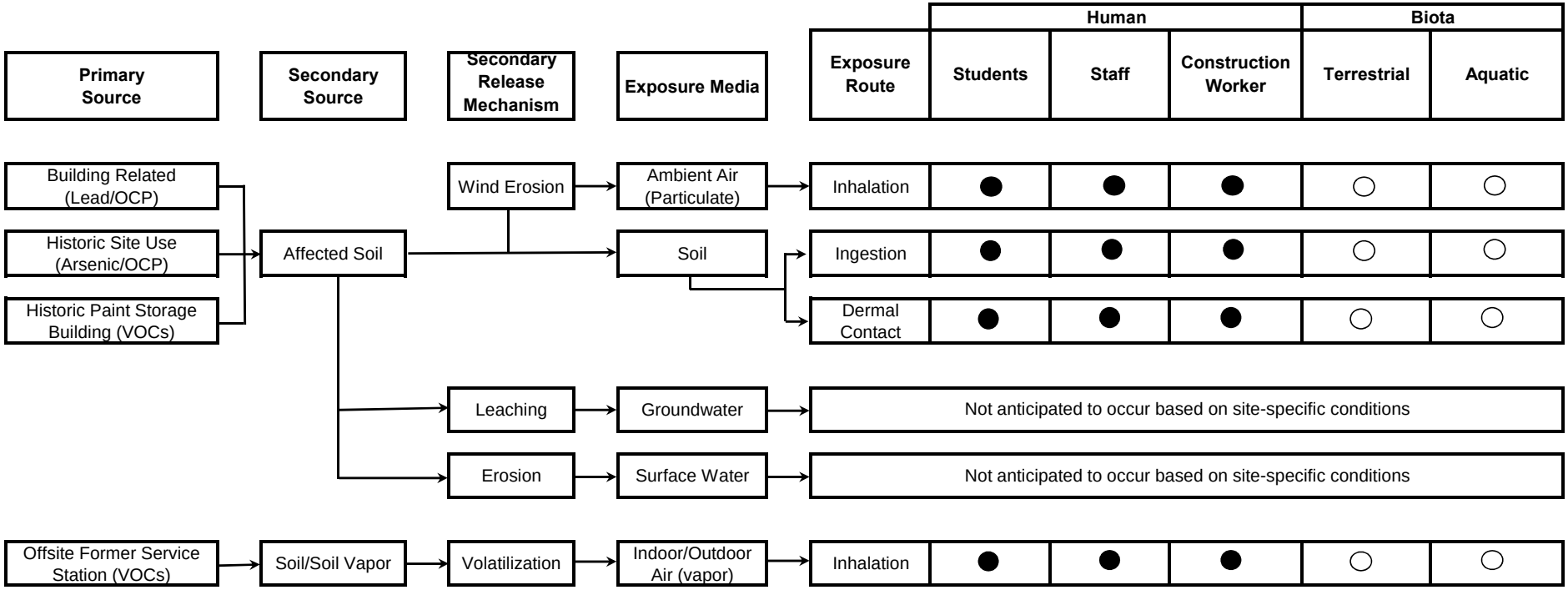
FIGURE 4B

NOTE:

OCP = organochlorine pesticide. VOC = volatile organic compound.

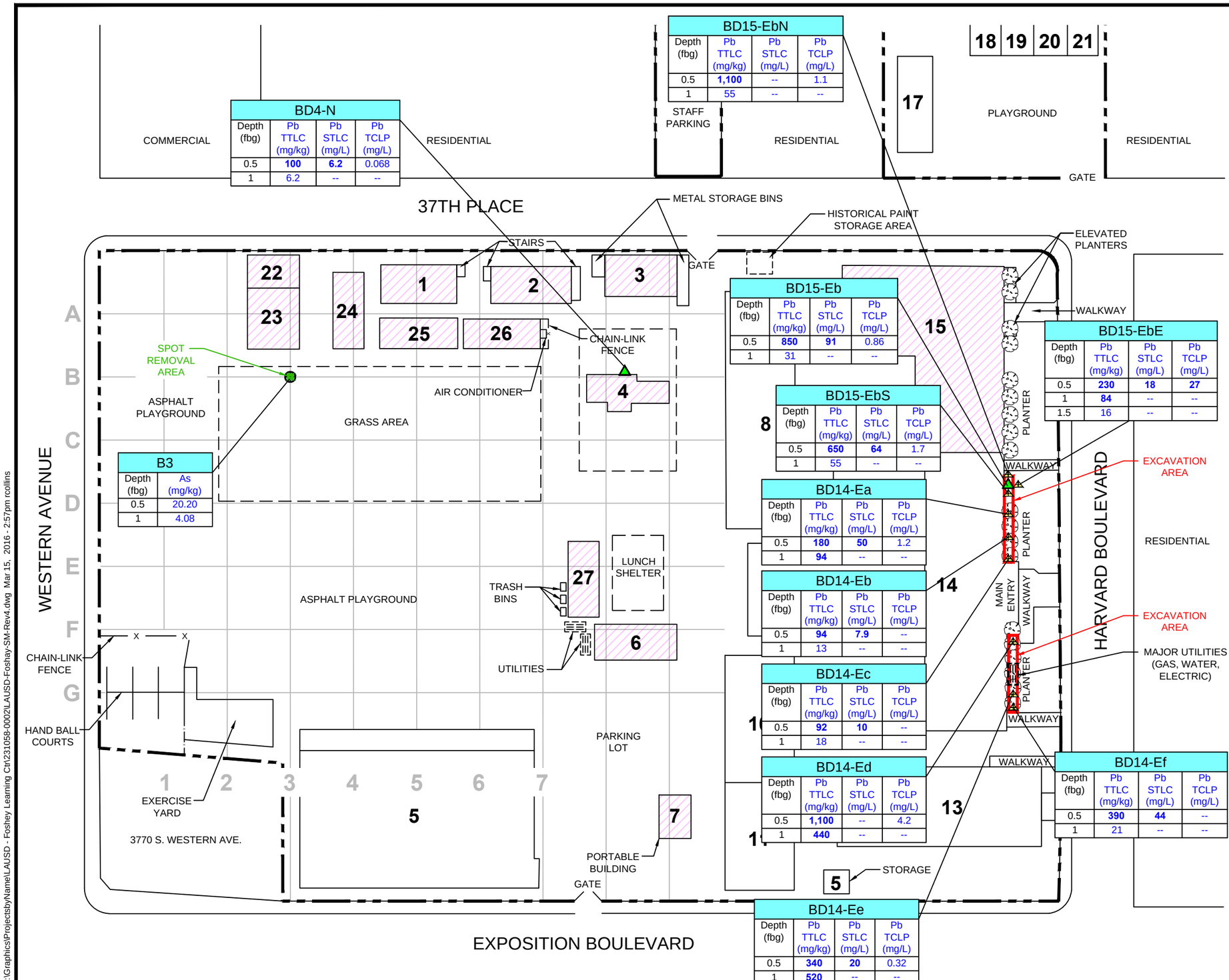
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FIGURE 5 - CONCEPTUAL SITE MODEL PATHWAY RECEPTOR NETWORK



Notes:

OCP = Organochlorine Pesticides
VOCs = Volatile Organic Compounds
● = Potentially complete current and future exposure pathway
○ = Incomplete current or future exposure pathway based on site conditions and existing and anticipated future land use



LEGEND

- Property Boundary
- Building to be Demolished
- Arsenic Boring Locations with Arsenic Concentrations (mg/kg) at Depth (feet)

Sample ID	
Depth (fbg)	As (mg/kg)
0.5	13.70

- Lead Boring Locations with Lead Concentrations (mg/kg) (mg/L) at Depth (feet)

Sample ID			
Depth (fbg)	Pb TTLC (mg/kg)	Pb STLC (mg/L)	Pb TCLP (mg/L)
0.5	230	18	27

- OCP/Lead Borings Around Buildings
- Lead Step-Out Borings
- Lead Removal Area

NOTES:

Pb = lead
As = arsenic
fbg = feet below grade
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
TTLC = total threshold limit concentration
STLC = soluble threshold limit concentration
TCLP = toxicity characteristic leaching procedure
-- = not analyzed
OCP = organochlorine pesticide

SCALE (FEET)
0 80

N

PROJECT: 231058

FACILITY:
LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

SOIL REMOVAL AREAS AND ADDITIONAL BORING LOCATIONS

TRC

FIGURE 6

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TABLES

Table 1
Preliminary Environmental Assessment Field Program
Preliminary Environmental Assessment Equivalent Report
LAUSD - James A. Foshay Learning Center
3751 South Harvard Boulevard
Los Angeles, California

Boring Type[1]	# of Borings	Depth (fbg)	Sample Matrix	Analytes					Laboratory Analytical Method(s)	Comments
				Arsenic	OCPs	Lead	TPH	VOCs		
Direct Push Boring	60	3	soil	x					EPA Method 6020	Borings to be continuously cored, logged, sampled at 0.5-foot intervals, and advanced to a total depth of 3 feet.
Direct Push Boring	30	3	soil		x	x			EPA Methods 8081 and 6010B	Borings to be continuously cored, logged, sampled at 0.5-foot intervals, and advanced to a total depth of 3 feet.
Direct Push Boring	15	3	soil	x	x	x			EPA Methods 6020, 8081, and 6010B	Borings to be continuously cored, logged, sampled at 0.5-foot intervals, and advanced to a total depth of 3 feet.
Direct Push Boring	3	3	soil			x			EPA Method 6010B	Borings to be continuously cored, logged, sampled at 0.5-foot intervals, and advanced to a total depth of 3 feet.
Direct Push Boring	1	12	soil					x	EPA Method 8260B	Borings to be continuously cored, logged, sampled at 3-foot intervals, and advanced to a total depth of 12 feet.
Soil Vapor Probe	2	15	soil				x	x	EPA Methods 8015M and 8260B	Borings to be continuously cored, logged, sampled at 5-foot intervals, and advanced to a total depth of 15 feet.
Soil Vapor Probe	2	5,15	vapor				x	x	TO-15	Soil vapor probes to be sampled in accordance with Advisory - Active Soil Gas Investigations (April 2012)*
Proposed Soil Screening Levels(mg/kg)**				**12**	**CS**	**80**	**NA**	**CS**		

Notes:

LAUSD = Los Angeles Unified School District
fbg = Feet below grade
OCPs = Organochlorine pesticides
TPH = Total Petroleum Hydrocarbons full-carbon chain with gasoline distinction (TPHg), diesel distinction (TPHd), and oil distinction (TPHo). Soil gas samples excluded TPHd and TPHo.
VOCs = Volatile organic compounds including fuel oxygenates (methyl tert-butyl ether [MTBE], diisopropyl ether [DIPE], ethyl-tert-butyl ether [ETBE], tert-amyl methyl ether [TAME], and tert-butyl alcohol [TBA])
mg/kg = Milligrams per kilogram
NA = Not applicable
CS = Chemical specific
EPA = Environmental Protection Agency

1 = Based on logistics and access issues, some borings will be hand augered/slide hammer sampled. Hand-augered borings will be advanced to a total depth of 3 feet and sampled at 0.5-foot intervals.

* = Advisory - Active Soil Gas Investigations - Department of Toxic Substances Control (DTSC) and Regional Water Quality Control Boards (Los Angeles and San Francisco Regions), April 2012.

** = Soil screening levels are action levels which require deeper boring analyses and step-out borings. Arsenic soil screening level based on California background level. All other screening levels based on specific chemical Human Health Based Risk Screening Levels (EPA Region IX Regional Screening Levels, California EPA - California Human Health Screening Level - Residential Scenario or DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment Note Number 3 criteria, as appropriate).

Table 2
Summary of Sample IDs and Laboratory Analyses
Preliminary Environmental Assessment Equivalent Report
LAUSD - James A. Foshay Learning Center
3751 South Harvard Boulevard
Los Angeles, California

Sample ID	Sample Date	Laboratory Report[a]	Sample Matrix	Selected Analytical Method					Comments
				Arsenic EPA Method 6020	**Lead** EPA Method 6010B	**Organochlorine Pesticides** EPA Method 8081	**Total Petroleum Hydrocarbons** EPA Method 8015M	**Volatile Organic Compounds** EPA Method 8260B	
Building Samples									
BD1-N-0.5	4/1/2015	1501179	S		X				
BD1-E-0.5	4/1/2015	1511180	S		X				
BD1-S-0.5	4/1/2015	1501179	S	X	X				
DUP-11	4/1/2015	1501179	S	X	X				
BD1-W-0.5	4/1/2015	1501179	S		X				
BD1-(N,S,W,E)-0.5	4/1/2015	1501179	S			X			
BD2-N-0.5	4/1/2015	1501180	S		X				
BD2-E-0.5	4/1/2015	1501180	S		X				
BD2-S-0.5	4/1/2015	1501180	S		X				
BD2-W-0.5	4/1/2015	1501180	S		X				
BD2-(N,S,W,E)-0.5	4/1/2015	1501179	S			X			
BD3-N-0.5	4/1/2015	1501179	S		X				
BD3-S-0.5	4/1/2015	1501179	S		X				
BD3-(N,S)-0.5	4/1/2015	1501179	S			X			
BD4-N-0.5	4/1/2015	1501180	S		X				STLC and TCLP included
BD4-N-1	4/1/2015	1501180	S		X				
BD4-E-0.5	4/1/2015	1501180	S	X	X				
BD4-S-0.5	4/1/2015	1501180	S		X				
BD4-W-0.5	4/1/2015	1501180	S	X	X				
BD4-(N,S,W,E)-0.5	4/1/2015	1501179	S			X			
BD6-N-0.5	3/30/2015	1501145	S		X				
BD6-E0.5	3/30/2015	1501145	S	X	X				
BD6-E1	3/30/2015	1501145	S	X					
BD6-S0.5	3/30/2015	1501145	S	X	X				
DUP-13	3/30/2015	1501145	S	X	X				
BD6-(N,E,S)-0.5	3/30/2015	1501145	S			X			
BD7-N-0.5	3/30/2015	1501145	S		X				
BD7-E-0.5	3/30/2015	1501145	S	X	X				
BD7-S-0.5	3/30/2015	1501145	S		X				
BD7-W-0.5	3/30/2015	1501145	S		X				
BD7(N,E,S,W)-0.5	3/30/2015	1501145	S			X			
BD15-Na-0.5	4/1/2015	1501179	S		X				
BD15-Nb-0.5	4/1/2015	1501179	S		X	X			
BD15-Ea-0.5	4/1/2015	1501179	S		X	X			
BD15-(Na,Wa,Wb)	4/1/2015	1501179	S			X			
BD15-Eb-0.5	4/1/2015	1501179	S		X	X			STLC and TCLP included
BD15-Eb-1	4/1/2015	1501180	S		X				
BD15-EbN-0.5	4/4/2015	1501229	S		X				TCLP included
BD15-EbN-1	4/4/2015	1501229	S		X				
BD15-EbE-0.5	4/4/2015	1501229	S		X				STLC and TCLP included
BD15-EbE-1	4/4/2015	1501229	S		X				
BD15-EbE-1.5	4/4/2015	1501229	S		X				
BD15-EbS-0.5	4/4/2015	1501229	S		X				STLC and TCLP included
BD15-EbS-1	4/4/2015	1501229	S		X				
BD15-Wa-0.5	4/1/2015	1501229	S		X				STLC included
BD15-Wa-1	4/1/2015	1501229	S		X				
BD15-Wb-0.5	4/1/2015	1501229	S		X				
BD15-(Nb,Ea,Eb)-0.5	4/1/2015	1501229	S			X			

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				Arsenic EPA Method 6020	**Lead** EPA Method 6010B	**Organochlorine Pesticides** EPA Method 8081	**Total Petroleum Hydrocarbons** EPA Method 8015M	**Volatile Organic Compounds** EPA Method 8260B	
BD23-E0.5	3/31/2015	1501144	S		X				
DUP-4	3/31/2015	1501144	S		X				
BD23-S0.5	3/31/2015	1501144	S		X				
BD23-S2.5	3/31/2015	1501144	S		X				
BD23-W-0.5	3/31/2015	1501180	S		X				
BD23-(E,S,W)-0.5	3/31/2015	1501144	S			X			
BD24-N-0.5	3/31/2015	1501144	S		X				
BD24-E-0.5	3/31/2015	1501144	S		X				
BD24-S-0.5	3/31/2015	1501144	S		X				
DUP-5	3/31/2015	1501144	S		X				
BD24-W-0.5	3/31/2015	1501144	S		X				
BD24-(N,E,S,W)-0.5	3/31/2015	1511144	S			X			
BD25-N-0.5	3/31/2015	1501180	S	X	X				
BD25-S-0.5	3/31/2015	1501180	S		X				
BD25-W-0.5	4/1/2015	1501179	S	X	X				
DUP-12	4/1/2015	1501179	S	X	X				
BD25-(N,S,W)-0.5	4/1/2015	1501179	S			X			
BD26-N-0.5	4/1/2015	1501180	S		X				
BD26-E-0.5	3/31/2015	1501180	S	X					
DUP-6	3/31/2015	1501180	S	X					
BD26-S-0.5	3/31/2015	1501180	S	X	X				
BD26-(N,E,S)-0.5	3/31/2015	1501180	S			X			
BD27-N-0.5	4/1/2015	1501180	S		X				
BD27-E-0.5	4/1/2015	1501180	S	X	X				
BD27-(N,W,E)-0.5	4/1/2015	1501179	S			X			No west sample collected
Grid Samples									
A1-0.5	3/28/2015	1501131	S	X					
A2-0.5	3/28/2015	1501131	S	X					
A2-1	3/28/2015	1501131	S	X					
A9-0.5	4/1/2015	1501180	S	X					
B1-0.5	3/28/2015	1501131	S	X	X	X			
B2-0.5	3/28/2015	1501131	S	X					
B3-0.5	3/28/2015	1501131	S	X					
B3-1	3/28/2015	1501131	S	X					
B4-0.5	3/28/2015	1501131	S	X					
B5-0.5	3/28/2015	1501131	S	X	X	X			
B6-0.5	3/28/2015	1501131	S	X					
B7-0.5	3/28/2015	1501131	S	X					
C1-0.5	3/28/2015	1501131	S	X					
C2-0.5	3/28/2015	1501131	S	X					
C3-0.5	3/28/2015	1501131	S	X					
C4-0.5	3/28/2015	1501131	S	X					
C5-0.5	3/28/2015	1501131	S	X					
C6-0.5	3/28/2015	1501131	S	X					
C7-0.5	3/28/2015	1501131	S	X					
C8-0.5	4/1/2015	1501131	S	X					
C9-0.5	4/1/2015	1501131	S	X					
CY-N-0.5	4/1/2015	1501179	S	X					
CY-S-0.5	4/1/2015	1501179	S	X					

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				Arsenic EPA Method 6020	**Lead** EPA Method 6010B	**Organochlorine Pesticides** EPA Method 8081	**Total Petroleum Hydrocarbons** EPA Method 8015M	**Volatile Organic Compounds** EPA Method 8260B	
D1-0.5	3/28/2015	1501131	S	X					
D2-0.5	3/28/2015	1501131	S	X					
D3-0.5	3/28/2015	1501131	S	X					
D4-0.5	3/28/2015	1501131	S	X					
D5-0.5	3/29/2015	1501133	S	X					
D6-0.5	3/29/2015	1501133	S	X					
D7-0.5	3/29/2015	1501133	S	X					
D8-0.5	4/1/2015	1501180	S	X					
D9-0.5	4/1/2015	1501180	S	X					
DUP-7	4/1/2015	1501180	S	X					
E1-0.5	3/29/2015	1501133	S	X					
E2-0.5	3/29/2015	1501133	S	X					
E3-0.5	3/29/2015	1501133	S	X					
E4-0.5	3/29/2015	1501133	S	X					
E5-0.5	3/29/2015	1501133	S	X					
E6-0.5	3/29/2015	1501133	S	X					
E7-0.5	3/29/2015	1501133	S	X	X				
E9-0.5	4/1/2015	1501180	S	X					
F1-0.5	3/29/2015	1501133	S	X	X	X			
DUP-1	3/29/2015	1501133	S	X	X	X			
F2-0.5	3/29/2015	1501133	S	X					
F2-1	3/29/2015	1501133	S	X					
F2-1.5	3/29/2015	1501133	S	X					
F2N-0.5	4/4/2015	1501229	S	X					
F2E-0.5	4/4/2015	1501229	S	X					
F2S-0.5	4/4/2015	1501229	S	X					
F2W-0.5	4/4/2015	1501229	S	X					
F3-0.5	3/29/2015	1501133	S	X					
F4-0.5	3/29/2015	1501133	S	X					
F5-0.5	3/29/2015	1501133	S	X	X	X			
DUP-2	3/29/2015	1501133	S	X	X	X			
F6-0.5	3/29/2015	1501133	S	X					
F7-0.5	3/29/2015	1501133	S	X					
G2-0.5	3/29/2015	1501133	S	X					
G3-0.5	3/29/2015	1501133	S	X					
DUP-3	3/29/2015	1501133	S	X					
G4-0.5	3/29/2015	1501133	S	X					
G5-0.5	3/29/2015	1501133	S	X					
G6-0.5	3/30/2015	1501145	S	X					
G7-0.5	3/30/2015	1501145	S	X					
G8-0.5	3/30/2015	1501145	S	X					
G9-0.5	3/30/2015	1501145	S	X					
H8-0.5	3/30/2015	1501145	S	X					
H9-0.5	3/30/2015	1501145	S	X					
I7-0.5	3/30/2015	1501145	S	X					
I8-0.5	3/30/2015	1501145	S	X					
PS1-0.5	4/1/2015	1501180	S	X					
DUP-8	4/1/2015	1501179	S	X					
PS1-3	3/31/2015	1501180	S					X	

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				Arsenic EPA Method 6020	**Lead** EPA Method 6010B	**Organochlorine Pesticides** EPA Method 8081	**Total Petroleum Hydrocarbons** EPA Method 8015M	**Volatile Organic Compounds** EPA Method 8260B	
DUP-9	3/31/2015	1501180	S					X	
SG-1-0.5	3/31/2015	1501144	S	X					
SG-2-0.5	3/31/2015	1501144	S	X					
Soil Gas Probe Soil Samples									
SG-1-5	3/31/2015	1501144	S				X	X	
SG-1-10	3/31/2015	1501144	S				X	X	
SG-1-15	3/31/2015	1501144	S				X	X	
SG-2-5	3/31/2015	1501144	S				X	X	
DUP-10	3/31/2015	1501144	S				X		
SG-2-10	3/31/2015	1501144	S				X	X	
SG-2-15	3/31/2015	1501144	S				X	X	
Soil Gas Probe Vapor Samples									
SG-1-5	3/31/2015	TRC033115-A2	SG				X		
SG1-15-1	3/31/2015	TRC033115-A2	SG				X	X	
SG1-15-3	3/31/2015	TRC033115-A2	SG				X	X	
SG1-15-7	3/31/2015	TRC033115-A2	SG				X	X	
SG-2-5	3/31/2015	TRC033115-A2	SG				X	X	
SG2-15	3/31/2015	TRC033115-A2	SG				X	X	

Notes:

LAUSD = Los Angeles Unified School District
ID = Identification
EPA = Environmental Protection Agency
S = Soil sample
SG = Soil gas sample
STLC = Soluble Threshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

Data Entry by: Clint McMahan
Checked by: Dan Diltzer

(a) Samples were analyzed by Advanced Technology Laboratories (ATL) in Signal Hill, California; American Environmental Testing

Table 3
Summary of Soil Sample Arsenic and Lead Concentrations
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Los Angeles, California

Sample ID	Sample Date	Laboratory Report	Sample Depth (feet bgs)	Metals				Comments
					Lead (Pb)			
				Arsenic (As)	TTLC	STLC	TCLP	
			EPA Method	6020	6010B	6010B	6010B	
			Units:	mg/kg	mg/kg	mg/L	mg/L	
			PQL:	0.10	1.0	0.050	1.0	
			Screening Level:	12	80	5.0	5.0	
Building Samples								
BD1-N-0.5	4/1/2015	1501179	0.50	---	**7**	---	---	
BD1-E-0.5	4/1/2015	1501180	0.50	---	**8.3**	---	---	
BD1-S-0.5	4/1/2015	1501179	0.50	**3.11**	**6.9**	---	---	
DUP-11	4/1/2015		0.50	**2.38**	**8.1**	---	---	
BD1-W-0.5	4/1/2015	1501179	0.50	---	**11**	---	---	
BD2-N-0.5	4/1/2015	1501179	0.50	---	**7.1**	---	---	
BD2-W-0.5	4/1/2015	1501180	0.50	---	**2.1**	---	---	
BD2-E-0.5	4/1/2015	1501180	0.50	---	**5.6**	---	---	
BD2-S-0.5	4/1/2015	1501180	0.50	---	**3.8**	---	---	
BD3-N-0.5	4/1/2015	1501179	0.50	---	**4.3**	---	---	
BD3-S-0.5	4/1/2015	1501179	0.50	---	**24**	---	---	
BD4-N-0.5	4/1/2015	1501180	0.50	---	**100**	**6.2**	**0.068**	
BD4-N-1	4/1/2015	1501180	1.00	---	**6.2**	---	---	
BD4-E-0.5	4/1/2015	1501180	0.50	**1.80**	**3.7**	---	---	
BD4-S-0.5	4/1/2015	1501180	0.50	---	**20**	---	---	
BD4-W-0.5	4/1/2015	1501180	0.50	**2.21**	**50**	---	---	
BD6-N0.5	3/30/2015	1501145	0.50	---	**35**	---	---	
BD6-E0.5	3/30/2015	1501145	0.50	**18.40**	**51**	---	---	
BD6-E1	3/30/2015	1501145	1.00	**1.91**	---	---	---	
BD6-S0.5	3/30/2015	1501145	0.50	**1.94**	**6.7**	---	---	
DUP-13	3/30/2015	1501145	0.50	**1.80**	**5.5**	---	---	
BD7-N0.5	3/30/2015	1501145	0.50	---	**3.7**	---	---	
BD7-E0.5	3/30/2015	1501145	0.50	**1.38**	**4.5**	---	---	
BD7-S0.5	3/30/2015	1501145	0.50	---	**3.4**	---	---	
BD7-W0.5	3/30/2015	1501145	0.50	---	**8.5**	---	---	
BD15-Na-0.5	4/1/2015	1501179	0.50	---	**49**	---	---	
BD15-Nb-0.5	4/1/2015	1501179	0.50	---	**66**	---	---	
BD15-Ea-0.5	4/1/2015	1501179	0.50	---	**58**	---	---	
BD15-Eb-0.5	4/1/2015	1501179	0.50	---	**850**	**91**	**0.86**	
BD15-Eb-1	4/1/2015	1501180	1.00	---	**31**	---	---	
BD15-EbN-0.5	4/4/2015	1501229	0.50	---	**1,100**	---	**1.1**	
BD15-EbN-1	4/4/2015	1501229	1.00	---	**55**	---	---	
BD15-EbE-0.5	4/4/2015	1501229	0.50	---	**230**	**18**	**0.27**	
BD15-EbE-1	4/4/2015	1501229	1.00	---	**84**	---	---	
BD15-EbE-1.5	4/4/2015	1501229	1.50	---	**16**	---	---	
BD15-EbS-0.5	4/4/2015	1501229	0.50	---	**650**	**64**	**1.7**	
BD15-EbS-1	4/4/2015	1501229	1.00	---	**55**	---	---	
BD15-Wa-0.5	4/1/2015	1501179	0.50	---	**83**	**3.1**	---	
BD15-Wa-1	4/1/2015	1501179	1.00	---	**26**	---	---	
BD15-Wb-0.5	4/1/2015	1501179	0.50	---	**55**	---	---	
BD23-E0.5	3/31/2015	1501144	0.50	---	**9.8**	---	---	
DUP-4	3/31/2015	1501144	0.50	---	**8.5**	---	---	
BD23-S0.5	3/31/2015	1501144	0.50	---	**17**	---	---	
BD23-S2.5	3/31/2015	1501144	0.50	---	**3.8**	---	---	
BD23-W-0.5	3/31/2015	1501180	0.50	---	**44**	---	---	
BD24-N0.5	3/31/2015	1501144	0.50	---	**12**	---	---	
BD24-E0.5	3/31/2015	1501144	0.50	---	**11**	---	---	
BD24-S0.5	3/31/2015	1501144	0.50	---	**3.9**	---	---	
DUP-5	3/31/2015	1501144	0.50	---	**5.3**	---	---	
BD24-W0.5	3/31/2015	1501144	0.50	---	**14**	---	---	
BD25-N-0.5	3/31/2015	1501180	0.50	**4.43**	**10**	---	---	
BD25-S-0.5	3/31/2015	1501180	0.50	---	**4.1**	---	---	
BD25-W-0.5	4/1/2015	1501179	0.50	**6.86**	**4**	---	---	

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					Lead (Pb)			
				Arsenic (As)	TTLC	STLC	TCLP	
			EPA Method	6020	6010B	6010B	6010B	
			Units:	mg/kg	mg/kg	mg/L	mg/L	
			PQL:	0.10	1.0	0.050	1.0	
			Screening Level:	12	80	5.0	5.0	
DUP-12	4/1/2015	1501179	0.50	**3.64**	**3.6**	---	---	
BD26-N-0.5	4/1/2015	1501180	0.50	---	**4.3**	---	---	
BD26-E-0.5	3/31/2015	1501180	0.50	**1.97**	---	---	---	
DUP-6	3/31/2015	1501180	0.50	**1.92**	---	---	---	
BD26-S-0.5	3/31/2015	1501180	0.50	**2.03**	**4.1**	---	---	
BD27-N-0.5	4/1/2015	1501180	0.50	---	**2.7**	---	---	
BD27-E-0.5	4/1/2015	1501180	0.50	**2.06**	**8**	---	---	
Grid Samples								
A1-0.5	3/28/2015	1501131	0.50	**5.88**	---	---	---	
A2-0.5	3/28/2015	1501131	0.50	**13.70**	---	---	---	
A2-1	3/28/2015	1501131	1.00	**4.81**	---	---	---	
A9-0.5	4/1/2015	1501180	0.50	**2.01**	---	---	---	
B1-0.5	3/28/2015	1501131	0.50	**3.33**	**51**	---	---	
B2-0.5	3/28/2015	1501131	0.50	**4.14**	---	---	---	
B3-0.5	3/28/2015	1501131	0.50	**20.20**	---	---	---	
B3-1	3/28/2015	1501131	0.50	**4.08**	---	---	---	
B4-0.5	3/28/2015	1501131	0.50	**2.62**	---	---	---	
B5-0.5	3/28/2015	1501131	0.50	**2.47**	**44**	---	---	
B6-0.5	3/28/2015	1501131	0.50	**7.20**	---	---	---	
B7-0.5	3/28/2015	1501131	0.50	**2.23**	---	---	---	
C1-0.5	3/28/2015	1501131	0.50	**3.38**	---	---	---	
C2-0.5	3/28/2015	1501131	0.50	**2.54**	---	---	---	
C3-0.5	3/28/2015	1501131	0.50	**2.45**	---	---	---	
C4-0.5	3/28/2015	1501131	0.50	**3.62**	---	---	---	
C5-0.5	3/28/2015	1501131	0.50	**2.57**	---	---	---	
C6-0.5	3/28/2015	1501131	0.50	**2.87**	---	---	---	
C7-0.5	3/28/2015	1501131	0.50	**1.81**	---	---	---	
C8-0.5	4/1/2015	1501180	0.50	**2.43**	---	---	---	
C9-0.5	4/1/2015	1501180	0.50	**1.68**	---	---	---	
CY-N-0.5	4/1/2015	1501179	0.50	**2.49**	---	---	---	
CY-S-0.5	4/1/2015	1501179	0.50	**1.51**	---	---	---	
D1-0.5	3/28/2015	1501131	0.50	**8.20**	---	---	---	
D2-0.5	3/28/2015	1501131	0.50	**1.85**	---	---	---	
D3-0.5	3/28/2015	1501131	0.50	**3.36**	---	---	---	
D4-0.5	3/28/2015	1501131	0.50	**2.26**	---	---	---	
D5-0.5	3/29/2015	1501133	0.50	**1.92**	---	---	---	
D6-0.5	3/29/2015	1501133	0.50	**1.85**	---	---	---	
D7-0.5	3/29/2015	1501133	0.50	**3.84**	---	---	---	
D8-0.5	4/1/2015	1501180	0.50	**3.17**	---	---	---	
D9-0.5	4/1/2015	1501180	0.50	**4.25**	---	---	---	
DUP-7	4/1/2015	1501180	0.50	**11.9**	---	---	---	
E1-0.5	3/29/2015	1501133	0.50	**4.38**	---	---	---	
E2-0.5	3/29/2015	1501133	0.50	**2.64**	---	---	---	
E3-0.5	3/29/2015	1501133	0.50	**2.68**	---	---	---	
E4-0.5	3/29/2015	1501133	0.50	**2.69**	---	---	---	
E5-0.5	3/29/2015	1501133	0.50	**2.89**	---	---	---	
E6-0.5	3/29/2015	1501133	0.50	**2.93**	---	---	---	
E7-0.5	3/29/2015	1501133	0.50	**2.53**	**18**	---	---	
E9-0.5	4/1/2015	1501180	0.50	**4.59**	---	---	---	

Table 3
Summary of Soil Sample Arsenic and Lead Concentrations
Preliminary Environmental Assessment Equivalent Report
LAUSD - James A. Foshay Learning Center
3751 South Harvard Boulevard
Los Angeles, California

Sample ID	Sample Date	Laboratory Report	Sample Depth (feet bgs)	Metals				Comments
					Lead (Pb)			
				Arsenic (As)	TTLC	STLC	TCLP	
			EPA Method	6020	6010B	6010B	6010B	
			Units:	mg/kg	mg/kg	mg/L	mg/L	
			PQL:	0.10	1.0	0.050	1.0	
			Screening Level:	12	80	5.0	5.0	
F1-0.5	3/29/2015	1501133	0.50	**1.91**	**9.2**	---	---	
DUP-1	3/29/2015	1501133	0.50	**1.73**	**14**	---	---	
F2-0.5	3/29/2015	1501133	0.50	**14.70**	---	---	---	
F2-1.0	3/29/2015	1501133	1.00	**17.40**	---	---	---	
F2-1.5	3/29/2015	1501133	1.50	**2.95**	---	---	---	
F2N-0.5	4/4/2015	1501229	0.50	**2.20**	---	---	---	
F2E-0.5	4/4/2015	1501229	0.50	**3.88**	---	---	---	
F2S-0.5	4/4/2015	1501229	0.50	**2.46**	---	---	---	
F2W-0.5	4/4/2015	1501229	0.50	**3.57**	---	---	---	
F3-0.5	3/29/2015	1501133	0.50	**1.64**	---	---	---	
F4-0.5	3/29/2015	1501133	0.50	**1.58**	---	---	---	
F5-0.5	3/29/2015	1501133	0.50	**2.30**	**14**	---	---	
DUP-2	3/29/2015	1501133	0.50	**2.57**	**18**	---	---	
F6-0.5	3/29/2015	1501133	0.50	**2.42**	---	---	---	
F7-0.5	3/29/2015	1501133	0.50	**2.05**	---	---	---	
G2-0.5	3/29/2015	1501133	0.50	**1.78**	---	---	---	
G3-0.5	3/29/2015	1501133	0.50	**2.94**	---	---	---	
DUP-3	3/29/2015	1501133	0.50	**3.36**	---	---	---	
G4-0.5	3/29/2015	1501133	0.50	**2.30**	---	---	---	
G5-0.5	3/29/2015	1501133	0.50	**4.19**	---	---	---	
G6-0.5	3/30/2015	1501145	0.50	**2.32**	---	---	---	
G7-0.5	3/30/2015	1501145	0.50	**2.00**	---	---	---	
G8-0.5	3/30/2015	1501145	0.50	**1.65**	---	---	---	
G9-0.5	3/30/2015	1501145	0.50	**1.47**	---	---	---	
H8-0.5	3/30/2015	1501145	0.50	**1.54**	---	---	---	
H9-0.5	3/30/2015	1501145	0.50	**2.67**	---	---	---	
I7-0.5	3/30/2015	1501145	0.50	**2.70**	---	---	---	
I8-0.5	3/30/2015	1501145	0.50	**1.85**	---	---	---	
PS1-0.5	4/1/2015	1501180	0.50	**2.31**	---	---	---	
DUP-8	4/1/2015	1501179	0.50	**2.19**	---	---	---	
SG-1-0.5	3/31/2015	1501144	0.50	**1.27**	---	---	---	
SG-2-0.5	3/31/2015	1501144	0.50	**2.16**	---	---	---	

Notes:

Table summarizes arsenic and lead laboratory analytical reports for soil samples
Data Entry by: Clint McMahan
Samples with detectable concentrations presented in **bold** font.
Checked by: Dan Dilzer
Arsenic screening level based on California background level.
TTLC screening level based on Department of Toxic Substances Control (DTSC) Office of Human Ecological Risk (HERO) Human Health Risk
STLC screening level is value based on California Code of Regulations Title 22 Chapter 11 Article 3, if exceeded the sample is considered a non - Resource Conservation and Recovery Act (RCRA) hazardous waste.
TCLP screening level is value based on 40 Code of Federal Regulations 261 Appendix II, if exceeded the sample is considered a RCRA - hazardous waste.
Samples exceeding screening levels are highlighted yellow.

LAUSD = Los Angeles Unified School District
ID = Identification
bgs = Below ground surface
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
TCLP = Toxicity Characteristic Leaching Procedure
EPA = Environmental Protection Agency
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
PQL = Practical Quantitation Limit as identified in the laboratory reports
--- = Not Analyzed
DUP = Duplicate of preceeding sample

Table 4
Summary of Soil Sample OCP, TPH, and VOC Concentrations
Preliminary Environmental Assessment Equivalent Report
LAUSD - James A. Foshay Learning Center
3751 South Harvard Boulevard
Los Angeles, California

Sample ID	Sample Date	Laboratory Report	Sample Depth (feet bgs)	Organochlorine Pesticides (OCPs)						Total Petroleum Hydrocarbons (TPH)			Volatile Organic Compounds (VOCs)	Comments
				4,4'-DDE [2C]	4,4'-DDT	alpha-Chlordane	Chlordane	Dieldrin [2C]	gamma-Chlordane [2C]	Gasoline Range (C4-C11)	Diesel Range (C12-22)	Motor Oil Range (C22+)		
EPA Method				8081	8081	8081	8081	8081	8081	8015B	8015B	8015B	8260B	
Units:				µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	µg/kg	
PQL:				2.0	2.0	1.0	8.5	2.0	1.0	1.1	10	10	CS	
Screening Level:				2,000	1,900	NA	430	34	NA	NA	NA	NA	CS	
Building Samples														
BD1-(N,S,W,E)-0.5	4/1/2015	1501179	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
BD2-(N,S,W,E)-0.5	4/1/2015	1501179	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
BD3-(N,S)-0.5	4/1/2015	1501179	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
BD4-(N,S,W,E)-0.5	4/1/2015	1501179	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
BD6-(N,E,S)-0.5	3/30/2015	1501145	0.5	ND<2.0	2.4	ND<1.0	ND<8.5	ND<2.0	**1.0**	---	---	---	---	
BD7-(N,E,S,W)-0.5	3/30/2015	1501145	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
BD15-(Na, Wa, Wb)-0.5	4/1/2015	1501179	0.5	**62**	**23**	**2.4**	**23**	**3.6**	**1.9**	---	---	---	---	
BD15-(Nb, Ea, Eb)-0.5	4/1/2015	1501179	0.5	**13**	**19**	**20**	**130**	**12**	**11**	---	---	---	---	
BD15-Nb-0.5*	4/1/2015	1501179	0.5	**11**	**33**	**1.0**	**10**	ND<2.0	ND<1.0	---	---	---	---	
BD15-Ea-0.5*	4/1/2015	1501180	0.5	**9.5**	**5.7**	**4.4**	**33**	**11**	**2.3**	---	---	---	---	
BD15-Eb-0.5*	4/1/2015	1501180	0.5	<2.0	<2.0	**15**	**130**	<2.0	**7.9**	---	---	---	---	
BD23-(E,S,W)-0.5	3/31/2015	1501144	0.5	**2.3**	<2.0	<1.0	**11**	**2.3**	**1.1**	---	---	---	---	
BD24-(N,E,S,W)-0.5	3/31/2015	1501144	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
BD25-(N,S,W)-0.5	4/1/2015	1501179	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
BD26-(N,E,S,)-0.5	3/31/2015	1501180	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
BD27-(N,W,E)-0.5	4/1/2015	1501179	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	No west sample collected
Grid Samples														
B1-0.5	3/28/2015	1501131	0.5	**2.8**	ND<2.0	**2.0**	**20**	**5.6**	**2.2**	---	---	---	---	
B5-0.5	3/28/2015	1501131	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
F1-0.5	3/29/2015	1501133	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
DUP-1	3/29/2015	1501133	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
F5-0.5	3/29/2015	1501133	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
DUP-2	3/29/2015	1501133	0.5	ND<2.0	ND<2.0	ND<1.0	ND<8.5	ND<2.0	ND<1.0	---	---	---	---	
PS1-3	4/1/2015	1501180	3	---	---	---	---	---	---	---	---	---	ND	
DUP-9	4/1/2015	1501180	3	---	---	---	---	---	---	---	---	---	ND	
Soil Vapor Probe Samples														
SG-1-5	3/31/2015	1501144	5	---	---	---	---	---	---	ND<1.1	ND<10	ND<10	ND	
SG-1-10	3/31/2015	1501144	10	---	---	---	---	---	---	ND<0.80	ND<10	ND<10	ND	
SG-1-15	3/31/2015	1501144	15	---	---	---	---	---	---	ND<1.2	ND<10	ND<10	ND	
SG-2-5	3/31/2015	1501144	5	---	---	---	---	---	---	ND<0.89	ND<10	ND<10	ND	
DUP-10	3/31/2015	1501144	5	---	---	---	---	---	---	ND<0.89	ND<10	ND<10	---	
SG-2-10	3/31/2015	1501144	10	---	---	---	---	---	---	ND<1.1	ND<10	ND<10	ND	
SG-2-15	3/31/2015	1501144	15	---	---	---	---	---	---	ND<0.86	ND<10	ND<10	ND	

Notes:

Table summarizes OCP, TPH, and VOC laboratory analytical reports for all soil samples.

OCPs and VOCs not presented were not detected (ND) at or above the constituent practical quantitation limit (PQL).

Samples with detectable concentrations presented in **bold** font.

Screening levels are based on Department of Toxic Substances Control (DTSC) Office of Human Ecological Risk (HERO) Human Health Risk Assessment (HRRA) Note Number 3-Table 1 Cancer Value (or Non-Cancer value, lowest value) (DTSC, 2015) or United States Environmental Protection Agency (US EPA) Regional Screening Level [carcinogenic or non carcinogenic, lowest value) (EPA, 2015).

Samples exceeding the screening levels are highlighted yellow.

* Samples analyzed past holding time for confirmation only.

Data Entry by: Clint McMahan
Checked by: Dan Diltzer

LAUSD = Los Angeles Unified School District
ID = Identification
bgs = Below ground surface
C4-C11 = Indicates the hydrocarbon chain range
EPA = Environmental Protection Agency
µg/kg = Micrograms per kilogram
mg/kg = Milligrams per kilogram
PQL = Practical Quantitation Limit as identified in the laboratory reports
NA = US EPA Region IX Regional Screening Level Resident Soil not available
CS = Compound specific
ND<2.0 = Constituent not detected at or above the laboratory PQL shown
--- = Sample was not analyzed for the particular constituent

Table 5
Summary of Soil Gas VOC Concentrations
Preliminary Environmental Assessment Equivalent Report
LAUSD - James A. Foshay Learning Center
3751 South Harvard Boulevard
Los Angeles, California

Sample ID	Sample Date	Laboratory Report	Sample Depth (feet bgs)	Volatile Organic Compounds (VOCs)										Comments
				Benzene	Tetrachloro-ethene (PCE)	Carbon Tetrachloride	2-Butanone	4-Methyl-2-Pentanone	o-Xylene	TPHv (C_5-C_{12})	Acetone	1,1-DFA	All Other VOCs	
EPA Method				TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	TO-15	
Units:				µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	
RL:				16	34	13	60	41	22	500	48	27	CS	
Screening Level:				97	480	67	5.2x10^6	3.1x10^6	1.0x10^5	NA	3.2x10^7	4.2x10^7	CS	
SG1-5'	3/31/2015	TRC033115-A2	5	ND<16	ND<34	**16**	**76**	**100**	ND<22	ND<500	**300**	ND<27	ND	
SG1-15',1PV	3/31/2015	TRC033115-A2	15	**17**	ND<34	ND<13	ND<60	ND<41	**23**	ND<500	**97**	ND<27	ND	
SG1-15', 3PV	3/31/2015	TRC033115-A2	15	ND<16	ND<34	ND<13	ND<60	ND<41	ND<22	ND<500	**100**	ND<27	ND	
SG1-15', 10 PV	3/31/2015	TRC033115-A2	15	ND<16	ND<34	ND<13	ND<60	ND<41	ND<22	ND<500	**96**	ND<27	ND	
SG2-5'	3/31/2015	TRC033115-A2	5	ND<16	ND<34	ND<13	ND<60	**42**	ND<22	ND<500	**230**	**220**	ND	
SG2-15'	3/31/2015	TRC033115-A2	15	ND<16	**51**	ND<13	ND<60	ND<41	**51**	ND<500	**72**	ND<27	ND	
SG2-15' Rep	3/31/2015	TRC033115-A2	15	ND<16	**36**	ND<13	ND<60	ND<41	ND<22	**1,300**	**140**	ND<27	ND	Replicate sample of SG2-15'
SG2-15-Con	3/31/2015	TRC033115-11	15	ND<3.2	**28***	ND<6.4	ND<30	**8.4***	**16***	**990**	ND<24	ND<5.5	ND	Confirmation sample analyzed at the H&P Mobile Geochemistry fixed-base laboratory

Notes:

Table summarizes VOC laboratory analytical reports for all soil gas samples.

Data Entry by: Clint McMahan

VOCs not presented were not detected (ND) at or above the reporting limit (RL)

Checked by: Dan Diltzer

Screening level=RSL/Attenuation Factor. RSL based on Department of Toxic Substances Control (DTSC) Office of Human Ecological Risk (HERO) Human Health Risk Assessment (HRRA) Note Number 3-Table 3 Cancer Value (or Non-Cancer value, lowest value) (DTSC, 2015) or United States Environmental Protection Agency (US EPA) Regional Screening Level [carcinogenic or non-carcinogenic, lowest value) (EPA, 2015).

Attenuation factor (default of 0.001) from Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air, DTSC and California Environmental Protection Agency (CalEPA) October 2011

Samples with detectable concentrations presented in **bold** font.

LAUSD = Los Angeles Unified School District
ID = Identification
bgs = Below ground surface
TPHv = Total petroleum hydrocarbons by volume
DFA = Difluoroethane
EPA = Environmental Protection Agency
µg/m3 = Micrograms per cubic meter
RL = Reporting limit as identified in the laboratory reports
CS = Compound specific
ND<16 = Constituent not detected at or above the presented RL
ND = Constituent not detected at or above the comound specific RL
NA = USEPA Region IX RSL not available
* = Reporting limit is lower for fixed-base laboratory

Table 6
Summary of Supplemental Soil Sample Lead Concentrations
Preliminary Environmental Assessment Equivalent Report
LAUSD - James A. Foshay Learning Center
3751 South Harvard Boulevard
Los Angeles, California

Sample ID	Sample Date	Laboratory Report	Sample Depth (feet bgs)	Lead (Pb)			Comments
				TTLC	STLC	TCLP	
			EPA Method	6010B	6010B	6010B	
			Units:	mg/kg	mg/L	mg/L	
			PQL:	1.0	0.050	1.0	
			Screening Level:	80	5.0	5.0	
Building Samples							
BD14-Ea-0.5	11/11/2015	1503885	0.50	**180**	**50**	**1.2**	
BD14-Ea-1	11/11/2015	1503885	0.50	**94**	---	---	
BD14-Eb-0.5	11/11/2015	1503885	0.50	**94**	**7.9**	---	
BD14-Eb-1	11/11/2015	1503885	0.50	**13**	---	---	
BD14-Ec-0.5	11/11/2015	1503885	0.50	**92**	**10**	---	
BD14-Ec-1	11/11/2015	1503885	0.50	**18**	---	---	
BD14-Ed-0.5	11/11/2015	1503885	0.50	**1,100**	---	**4.2**	
BD14-Ed-1	11/11/2015	1503885	0.50	**440**	---	---	
BD14-Ee-0.5	11/11/2015	1503885	0.50	**340**	**20**	**0.32**	
BD14-Ee-1	11/11/2015	1503885	0.50	**520**	---	---	
BD14-Ef-0.5	11/11/2015	1503885	0.50	**390**	**44**	---	
BD14-Ef-1	11/11/2015	1503885	0.50	**21**	---	---	

Notes:

Table summarizes lead laboratory analytical reports for soil samples
Data Entry by: Clint McMahan
Samples with detectable concentrations presented in **bold** font.
Checked by: Dan Dilzer
TTLC screening level based on Department of Toxic Substances Control (DTSC) Office of Human Ecological Risk (HERO) Human Health Risk Assessment (HRRA) Note Number 3, Table 1 (DTSC, 2015).
STLC screening level is value based on California Code of Regulations Title 22 Chapter 11 Article 3, if exceeded the sample is considered a non - Resource Conservation and Recovery Act (RCRA) hazardous waste.
TCLP screening level is value based on 40 Code of Federal Regulations 261 Appendix II, if exceeded the sample is considered a RCRA - hazardous waste.
Samples exceeding screening levels are highlighted yellow.

LAUSD = Los Angeles Unified School District
ID = Identification
bgs = Below ground surface
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
TCLP = Toxicity Characteristic Leaching Procedure
EPA = Environmental Protection Agency
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
PQL = Practical Quantitation Limit as identified in the laboratory reports
--- = Not Analyzed

Table 7
Soil Removal Estimate
Preliminary Environmental Assessment Equivalent Report
LAUSD - James A. Foshay Learning Center
3751 South Harvard Boulevard
Los Angeles, California

Removal	Contaminant	Area	Approximate Dimensions (ft)	Estimated Volume* (yd^3)	Status	Comments
Spot Removal 1	As	B3	3x3x1.0	0.43	Removed	non-hazardous
	As Soil Removal Subtotal			0.43		
Excavation 1	Pb	BD15-Eb	130x7x1.5**	58	Removed	non-RCRA hazardous
Spot Removal 2	Pb	BD4-N	3x3x1.0	0.43	Existing	non-RCRA hazardous
	Pb Soil Removal Subtotal			58.43		
	Total Soil Removal Estimate			58.86		

Notes:

ft = feet
yd^3 = cubic yards
As = Arsenic
Pb = Lead
RCRA = Resource Conservation and Recovery Act
* = Assumes a 30 percent expansion
**= Depth varies

APPENDIX A

BORING LOGS

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	A1
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						23" of Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
					0"	Bottom of Base	
1	DP		9:30	0.3	6"	Brown Silty Sand w/some gravel 5YR 3/2	0.3 ppm
				0.0	12"	Brown Silty Sand w/ some CL 5YR 3/2	
					18"	"	
					24"	"	
					30"	" 10 YR 2/2	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG:	7800
BORING DIAMETER:	2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
—	—	NA	—

SIGNED — DATE 3/28/15

CHECKED — DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:** A2	
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
				PPM		4" of Asphalt / Base -	*PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:50	0.9	6"	Silty sand w/ coarse gravels poorly graded. some Asphalt/Base 5YR 4/4 Back fill.	
				0.0	12"	Silty sand w/ some gravel 5YR 3/4	
					18"	Silty sand w/ gravel and pieces of brick. (Probably Back fill.) 5YR 3/2.	
					24"		
					30"		
				0.0	36"	Sandy Clay w/ gravel pieces of oxidized metal ~~or more~~ 5YR 2/2	
					40"		
					48"		

DRILLING METHOD:
Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** A9.	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						2.5" Asphalt 3" Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:15	0.0	6"	Brown Sand silt 5YR-3/2 PG Dry Fine grain	
					12"	"	
					18"	"	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	B1
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/27/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~4" Asphalt / Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			1025	0.0	6"	Coarse Gravely Sand. w/ Silt some Asphalt 5YR/3/4	
				0.0	12"	medium silty sand. 5YR. 3/2 some gravel.	
					18"	med - fine silty sand. w/ some gravel 5YR 3/2.	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED — DATE 3/28/15

CHECKED — DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	B2
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/18/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/26/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						Grass/ Organic Rich soil 10 YR 3/2 Fr	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:45	0.0	6"	Silty clay w/ some sand and gravel med/fine. 5 YR 3/2. ~~Fr~~ Hard PG	
				0.0	12"	~~Sandy~~ Coarse grain Sandy Clay 10 YR 5/4 w/ some Roots PG	
					18"	Dark Brown silty sand 5 YR 2/2. w/ some Roots GG	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:**	B3
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/25/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/25/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					0	Grass + organic Rich Soil 10YR 2/2	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
					4"		
			11:07	0.0	6"	Silty sand w/ clay and gravel w/ 5YR 4/4	
					12"	" 5YR 3/2	
					18"	Sandy clay w/ some gravel 10YR 5/4	
				0.0	24"	"	
					30"	" 5YR 2/2	
				0.0	36"	" 5YR 2/2	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED — DATE 3/28/15

CHECKED — DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	B4
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					0	Grass / Organic Rich	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
					4"		
			11:22	0.0	6"	Clay Sand w/ gravel and clay nodules (coarse/rolled) WG 5YR 3/4	
					12"	"	
					18"	~~Silty~~ Sandy Silt Dark Brown 5YR 3/2 w/ some gravel, WG.	
				0.0	24"	"	
					30"	"	
					36"	"	
				0.0	40"	"	
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/29/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:**	B5
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/18/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					0	Grass Organic Rich Soil	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
					4"		
			11:52	0.0	6"	Some organics Silty Sand. w/ some to fine sand and some gravel. 5YR 3/4	
					12"	Silty Sand mostly fines some Gravel Dark Brown 5YR 3/2.	
					18"	" minor clay nodules	
				0.0	24"	" w/some clay nodules	
					30"	"	
				0.0	36"	"	
					40"	"	
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED — DATE 3/28/15

CHECKED — DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:**	B6
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					0"	Grass Organic Rich.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			12:07	0.0	6"	some organics and coarse Silty Sand w/ some gravel 5YR 4/4	
					12"	coarse Silty Sand w/ Gravel 5YR 5/6 WG	
					18"	med/fine Silty Sand w/ some clay Brown 5YR 3/4 PG	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:**	B7
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					0	4" of Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			12:20	2.0	6"	light Brown silty sand w/ some gravel 5YR 4/4	
					12"	moderal Brown silty Sand w/Few Gravels PGL. 5YR 3/4	
					18"	Brown - Dark Brown silty sand w/some Rounded moderatly PGL 5YR 3/2	
				0.0	24"	11	
					30"	11	
				0.0	36"	11	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	C1
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~4"-5" of Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			12:00	0.0	6"	Silty Sand w/ some gravel Brown 5YR 3/4 WG Damp	
					12"	"	
				0.0	18"	Clay Silt w/ some sand Dark Brown 5YR 3/2 Dry FG	
					24"	"	
					30"	"	
				0.0	36"	" coarser sand. Dry DG	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	C2
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						0-4" Grass + organic (Roots)	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:42	15.14	6"	Some organics UG Sandy silt w/ some clay and gravel Brown 5YR 3/2	
				0.0	12"	Silty clay w/ some sand and few course sand/ gravel 5YR 2/2	
					18"	"	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	C3
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					0-4"	Grass & organic Rich.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:52	0.0	6"	Some Organics WG Sandy Silt w/ some clay and gravel Brown 5YR 3/2.	
				0.0	12"	Silty clay w/ some sand PG fines. 5YR 2/2.	
					18"	"	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	C4
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						No grass	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:02	2.3	6"	some organics sandy silt w/ some clay 5YR 5/6 light Brown	
					12"	Silt w/ some clay + sand. 5YR 2/2.	
				0.0	18"	~~silty~~ clay silt w/ some sand. Brown 5YR 2/2	
					24"	" "	
					30"	" "	
				0.0	36"	" "	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	C5
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/25/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/25/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:14	1.2	6"	Light Brown some organics Sandy silt w/some gravel 5YR 5/6	
					12"	Clay silt w/some sand. 5YR 2/2	
					18"	11	
				0.0	24"	Pieces of cement & clay silt w/some sand mod dense Dry 5YR 2/2.	
					30"	Clay silt w/some sand mod dense Dry 5YR 2/2	
				0.0	36"	11	
					40"		
					48"		

DRILLING METHOD:
Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 3/28/15

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	C6
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/29/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:30	1.2	6"	Brown Sandy Silt w/some gravel little to NO organics 5YR 4/5	
					12"	"	
				0.0	18"	light Brown Sandy Silt 5YR 5/6 Broken Piece of Plastic (Green) Probably a stake of some kind.	
					24"	Rock of gravel / Back Fill clay Rich Silt Below.	
					30"	Brown silty Sand w/ clay 5YR 3/2	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	B C7
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" of Asphalt Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:50	0.0	6"	Sandy Silt w/ clay Brown 5YR 5/4	
					12"	Silt little clay/sand Brown 5YR 4/4 Dry	
				0.0	18"	"	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 3/28/15

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** C8	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asphalt 2" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:05	0.3	6"	Brown Sandy Silt w/ gravel + some clay 5YR-3/4 GG Dry fine grain	
					12"	Brown sandy silt 5YR-3/4 PG Dry fine grain.	
					18"	Brown Silt w/some sand 5YR-3/2 PG Dry, Fine grain	
				0.0	24"	"	
					30"	Brown Silt 5YR-3/2 PG Dry fine grain (some Roots-organics)	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** C9	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asphalt + 2" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:50	0.0	6"	Brown sandy silt w/gravel 5YR-4/4 GG dry, fine to coarse grain	
					12"	"	
					18"	Brown silt w/some sand 5YR-3/2 WG dry, fine grain	
				0.0	24"	Brown silt w/some sand 5YR-3/2 dry fine grain PG	
					30"	" Roots/organics	
				0.0	36"	" Roots/organics	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

4 / 1 /2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:**	D1
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" of Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			15:10	0.0	6"	Sandy Silt w/ some gravel 5YR 4/4	
					12"	Silt w/ some sand + gravel 5YR 3/2	
				0.0	18"	Clay Silt, w/ some sand 5YR 3/2	
					24"	Small piece of granitic rock. ~1"	
					30"		
				0.0	36"		
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	D2
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~ 5" of Asphalt / Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			15:26	0.0	6"	Light Brown Clay Silt w/ some sand + Gravel 5YR 5/4	
					12"	Brown clay silt w/sand moist (Due to sprinklers) 5YR 4/4	
				0.0	18"	"	
					24"	granitic Rock ~ 1" Diam.	
					30"	Brown Clay Silt moist 5YR 4/4	
				0.0	36"	" 5YR 3/4	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 3/28/15

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	B 03
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" of Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			15:23.0		6"	Brown Sandy silt w/ gravel 5YR 3/4	
					12"	Brown Sand silt w/ clay 5YR 3/4	
					18"	Brown ~~Silt~~ Clay silt w/ some sand.	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	D4
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/28/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/28/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						4"- 5" of Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			1600	0.0	6"	Brown sandy silt w/ some gravel + clay 5YR 4/4	
					12"	Dark Brown Sandy Silt w/ Clay 5YR 3/4	
					18"	Dark Brown Clay Silt w/ some Sand. 5YR -3/2	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/28/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	D5
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" of Asphalt/Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:34	0.0	6"	Brown Sandy Silt w/gravel + some clay 5YR-4/4 PGG loose wet	~~4'~~ sample was compressed into ~2.5' including Asphalt + Base
					12"	" PG	All samples were wet/moist due to irrigation.
					18"	Brown clay silt w/some Sand 5YR 2/2 PG moist	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

/ /2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: ~~B~~ D6	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:50	0.0	6"	Brown Sandy silt, w/ gravel and some clay 5YR-4/4 WG moist	See QS comments
					12"	Brown sandy silt w/some clay 5YR-3/4 PG	
					18"	Brown clay silt w/ some sand 5YR-2/2 PG moist	
				0.0	24"	Brown Silt w/ some sand 5YR 3/2 PG moist	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

3/24/2015
SIGNED DATE

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LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** D7	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~7" of Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:08	0.0	6"	Brown (5YR 4/4) sandy Silt w/ gravel and some Clay moist	
					12"	Brown Sandy Silt w/ some Clay 5YR 3/4 GG moist	
					18"	Brown Clay Silt w/ some sand 5YR 2/2 PG moist some gravel, moist	
				0.0	24"	Brown "	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	D8
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~3" Asphalt/3" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:15	0.9	6"	Brown sandy silt w/ gravel and some clay 5YR-4/4 GG Dry fine to coarse grain.	
					12"	Brown Sandy silt w/ some gravel & Clay 5YR-3/4 GG Dry Fine to coarse grain, Hit some old Base of concrete.	
				0.0	18"	Brown clay silt w/ some sand 5YR-2/2 GG fine to coarse grain Dry. Hit pieces of brick	
					24"	"	
					30"	"	
				0.0	36"	Hit concrete ~ 5" thick.	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4 / 1 /2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** D9 / Dup7	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" of Asphalt 3" of Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:09	1.3	6"	Brown Sandy silt w/ gravel + little clay 5YR 4/4 GG Dry fine to coarse grain.	
					12"	" 5YR 3/4	
					18"	" 5YR 3/2	
				0.0	24"	Brown clay silt w/ some sand 5YR 3/2 WG Dry Fine grain.	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4 / 1 /2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:** G1	
PROJECT NUMBE 231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks		
PROJECT LOCATI 3751 S. Harvard Blvd.		DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~ 5"-6" Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:34	0.0	6"	Brown Sand + Silt w/ some gravel + clay 5YR 4/4 GW moist	
					12"	Brown Sandy Silt w/ some gravel ~~Peat~~ GG ~~PEAT~~ moist	
					18"	Brown clay Silt w/ some sand 5YR-2/2 PG moist	
				0.0	24"	Brown Silt w/ some sand 5YR 3/2 PGB moist	
					30"	" Dry	
				0.0	36"	" Dry.	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

3/29/2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** E2	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:45	0.0	6"	Brown Sandy Silt w/ gravel and some clay 10YR 5/4 WG moist	
					12"	" "	
					18"	Brown Silt with some sand 10YR 3/2 PA slightly moist	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

3/29/2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** E3	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~7" Asphalt / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:00	0.0	6"	Brown sandy silt w/ gravels and some clay 5YR-4/4 WG moist	
					12"	Brown ~~Sand~~ Sandy Silt w/ some clay 5YR-3/4 WG moist	
				0.0	18"	Brown Silty w/ some sand 5YR-3/2 PG moist	
					24"	(1 Dry	
					30"	11 Dry	
				0.0	36"	11 Dry	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

3/29/2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** E4	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~ 7" Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:19	0.0	6"	Brown Sandy Silt w some gravel + clay 5YR-4/4 POR Damp	
					12"	" 5YR-3/4 DRY	
					18"	Brown SILT w/ sand POR 5YR-3/2 DRY	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** ES	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~ 6" of Asphalt + Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:40	0.0	6"	Brown Sandy Silt w/ gravels + little clay 5YR 3/4 WG Damp.	
					12"	Brown Sandy Silt 5YR-3/4 PG Dry.	
				0.0	18"	"	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** E6	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~7" Asphalt / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:50	0.0	6"	Brown Sandy silt w/ little clay + some gravel 5YR - 4/4 GG, Dry	
					12"	Brown sandy silt w/ some clay 5YR-3/4, GG Dry Encountered some Brick + Gravel.	
				0.0	18"	"	
					24"	Brown silt w/ sand 5YR-3/2 PG Dry	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

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LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:** E7 / BD27	
PROJECT NUMBE 231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks		
PROJECT LOCATI 3751 S. Harvard Blvd.		DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:03	0.0	6"	Brown Sandy silt w/ gravel + little clay 5YR-4/4 WG Damp	
					12"	Brown Sandy silt w/ clay + gravel 5YR-3/4 GG DF	
					18"	Brown silt w/ some sand 5YR-3/2 PG DRY Encountered pieces of Brick.	
				0.0	24"	Brown Silt w/ little Some Sand 5YR-3/2 PG DRY	
					30"		
				0.0	36"		
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** E9	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" of Asphalt & 3" of Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:30	0.9	6"	Brown Sandy Silt, little clay 5YR-4/4 PG, Dry, fine to course grain.	
					12"	Brown Sandy Silt w/ little clay 5YR-3/4 PG, Dry fine grain	
				0.0	18"	Brown Silt & sand (SP-SM) 5YR-3/2 WG, Dry fine to course grain (sand).	
					24"	Brown Silt w/ little sand 5YR-3/2 PG Dry fine grain	
					30"	//	
				0.0	36"	//	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

4 / 1 /2015
SIGNED DATE

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LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** F1 / Dup 1	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						7" Asphalt / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:55	0.0	6"	Brown Sandy Silt w/(gravel) + some Clay 5YR - 4/4 WG Dry	
					12"	Brown sandy Silt w/ some clay 5YR - 3/4 WG, Dry	
					18"	Brown Silt w/ little sand 5YR 3/2 PG Dry	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** F2	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						7" Asphalt / Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			12:18	0.0	6"	Brown sandy silt w/gravel little clay 5YR 3/4 dry	
					12"	" 5YR-3/4	
				0.0	18"	Brown silts w/some sand 5YR-2/2 Pgl dry	
					24"	" some organics (wood)	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

3/29/2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** FZN	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 4 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 4 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asphalt 3" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:55	1.3	6"	Brown Sandy Silt w/ gravel + Soft clay 5YR 4/4 Loose dry fine to coarse grain	
				0.0	12"	" some metal Debris (Nails/pipe?)	
				0.0	18"	Brown Silt w/ Sand 5YR 3/2 PG dry fine grained Poor Porter contained some metal	
					24"	Brown Silt w/ some Sand 5YR 3/2 PG dry fine grain.	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 4/4/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** F2-E	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/14/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/14/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:20	0.0	6"	Brown Sandy Silt w/ Thin clay lenses and gravel 5YR-4/4 WG Fine to coarse grain	
					12"	Brown sandy silt (15% clay) 5YR 3/4 WG DRY to coarse grain	
					18"	Brown silt w/sand 5YR 7/2 PG DRY fine grained.	
				0.0	24"	11	
					30"	11	
				0.0	36"	11	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

4/14/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** F2S	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 4 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/4 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5"Asp 3" Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:45	0.0	6"	Brown sandy silt w/ pebbles and some clay 5YR-4/4 G G Damp Fine to coarse grained	
				0.0	12"	"	
					18"	Brown Sndy Silt 5YR 3/2 Dry Fine grain.	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

/ /2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** FZW	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 4 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 4 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asphalt 2" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10.05	1.6	6"	Brown Sandy silt 5YR 5/6 w/ some gravel Damp. fine to course	
				0.1	12"	Brown Sandy silt little clay < 10% 5YR 5/4 Dry fine grain	
				0.0	18"	Brown sandy silt 5YR 3/2 Dry fine grain	
					24"	Pieces of cobble size brick	
					30"	4	
				0.0	36"	4 ~~total~~ small pieces of brick.	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

4/4/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** F3	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 5/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 5/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt + Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			1235	0.0	6"	Brown sandy silt w/ gravel and little clay 5YR-4/4 GG Rock	
					12"	// Less gravel 5YR-3/1 Rock	
					18"	Brown silt w/ some sand 5YR-3/2 Pebbles, Rock miner fragments of Rock	
				0.0	24"		
					30"		
				0.0	36"		
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

5/29/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** F4	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~6" Asphalt/Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			12:50	0.0	6"	Brown sandy silt w/ gravel + some clay 5YR-4/4 GG w/ organics (wood)	
					12"	"	
				0.0	18"	Brown Silt w/ some sand 5YR-3/2 PG Dry	
					24"	Brown silt 5YR-3/2 PG Dry	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** FS / Dup 2	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt + Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:15	0.0	6"	Brown Sandy silt w/ gravel + little clay 5YR-4/4 WG	
					12"	Brown Sandy silt w/ clay lens 5YR-3/4 w/ [redacted] WG	
					18"	Brown Silt w/ some sand 5YR-3/2 WG Dry	
				0.0	24"	Brown silt w/ some sand 5YR-3/2 POR Dry	
					30"	1/	
				0.0	36"	1/	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

3/29/2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** FG	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt + Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:25	0.0	6"	Brown Sandy silt w/ gravel and some clay 5YR 4/4 WG Dry	
					12"	Brown Sandy silt w/ little clay 5YR -3/4 PG	
				0.0	18"	Brown silt w/ some sand 5YR-3/2 WG Dry minor amounts of gravel.	
					24"	Brown silt w/ some gravel 5YR 3/2 WG Dry	
					30"	Brown silt w/ some sand. 5YR - 3/2 PG Dry.	
				0.0	36"	Brown silt 5YR - 3/2 PG Dry	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** F 7	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF \
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/27/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:42	0.0	6"	Brown Sandy Silt w/ gravel and little clay 5YR-4/4 Dry GG.	
					12"	11	
					18"	Brown Silty Sand lenses w/ gravel 5YR 4/2 PG Dry	
				0.0	24"	Brown Silt w/ some sand 5YR-3/2 PG Dry	
					30"	11	
				0.0	36"	4	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** G2	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						10" of Asphalt/Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:00	0.0	6"	Brown Sandy silt w/ gravel + some clay 5YR-3/4 GG moist few organics (Roots)	
					12"	Brown ~~Silt~~ silt w/ some sand 5YR-3/2 PG dry	
				0.0	18"	Brown clay silt 5YR-3/2 PG dry	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** G3 / Dup 3	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~6" Asphalt / Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:23	0.7	6"	Brown Sandy Silt w/ gravel + some clay 5YR-4/4 WG Dump	
					12"	Brown sand + silt/w/some clay 5YR-3/4 GG gravels.	
					18"	Brown Silt w/some sand 5YR-3/2 PG Dump	
				0.0	24"	"	
					30"	" Dry	
				0.0	36"	" Dry	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

3/29/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** G4	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/29/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/29/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~9" Asphalt / Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:42	0.0	6"	Brown Sandy Silt w/gravel + little clay 5YR-4/4 DG	
					12"	" little organics	
					18"	Brown Silt w/sand + little clay 5YR-3/2 PG DRY	
				0.0	24"	Brown Silt 5YR-3/2 PG DRY	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/29/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	GS
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/25/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3Dy/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						8" 4" Asphalt - 4" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:57	0.0	6"	Brown Sandy Silt w/gravel GG Dry 5YR 4/4	
					12"	Brown Silt w/ sm clay/sand PG	
					18"	Brown Silt w/ clay+sand 5YR 3/2 PG	
				0.0	24"	"	
					30"	"	
				6.0	36"	"	
					40"		
					48"		

DRILLING METHOD:
Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED — DATE 3/29/15

CHECKED — DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: GM6	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/24/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/26/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" AS pvmt / Base 3" 3"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:15	3.2	6"	Brown sandy silt w/ gravel + clay 5YR - 4/4 WG DRY	
					12"	" 5YR - 3/4 DRY	
					18"	Brown clay silt w/ some sand 5YR - 3/2 WG DRY	
				0.0	24"	"	
					30"	Brown silt w/ some sand 5YR 3/2 PG DRY	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/26/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: G7	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						7" of Asphalt / Base 3" 4"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:30	0.0	6"	Brown sandy silt w/gravel + some clay 5YR 4/4 PG ~~Moist~~ Damp	
					12"	Brown silty clay 5YR 3/2 PG ~~Moist~~ Damp	
				0.0	18"	Brown clay w/ some silt 5YR 3/2 PG ~~Moist~~ Damp	
					24"	Brown silt w/ some sand 5YR 3/2 WG Damp.	
					30"	Brown silt w/ some sand 5YR 3/2 PG Damp	
				0.0	36"	/ /	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED — DATE 3/30/2015

CHECKED — DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** G8	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						8" of Asphalt / Base. 4" 4"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:15	0.0	6"	Brown Sandy Silt w/ gravel + little clay 5YR - 4/4 DWG	
					12"	"	
				0.0	18"	Brown Silty Sand 5YR 3/2 Dry	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/30/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** G9	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt + Base 3" 3"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:20	0.0	6"	Brown sandy silt w/ gravel and some clay 5YR 4/4 WK fine to coarse grained Damp	
					12"	" " Dry	
				0.0	18"	Brown silt w/ some sand 5YR 3/2 PG Dry	
					24"	" "	
					30"	" "	
				0.0	36"	" "	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 3/30/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** GA9	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt / Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:20	0.0	6"	Brown sandy silt w/ gravel & little clay 5YR 4/4 wet	
					12"	"	
				0.0	18"	Brown silt w/ some sand 5YR 3/2 fine dry	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

3/30/2015

SIGNED DATE CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	H8
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:00	0.0	6"	Brown sandy silt w/ gravel + some clay 5YR 4/4 Dry Dry	
					12"	" "	
				0.0	18"	Brown silt w/ some sand 5YR 3/2 Dry Dry	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

3/30/2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** H9	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 5/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 5/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" of ~~Asphalt~~ / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:10		6"	Brown sandy silt w/ gravel 5YR 5/4 WG	
					12"	Bore went down 4' But only pulled up ~6" of soil and ~~some~~ possibly mixed w/ Asphalt + Base.	
					18"	No PID was taken ~~at~~ Entire soil was used for 0.5' Sample	
					24"		
					30"		
					36"		
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 5/30/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** I 7	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						7" of Asphalt/Base 3" / 4"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:50	0.0	6"	Brown Sandy Silt w/ gravel & little clay 5YR 4/4 wet Damp	
					12"	"	
				0.0	18"	Brown Silt w/sand 5YR 3/2 Dry Damp	
					24"	"	
					30"	" Dry	
				0.0	36"	" Dry	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

3/30/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** I8	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt/Base 3" 3"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:10	0.0	6"	Brown sandy silt w/ gravel + some clay 5YR 4/4 WG	
					12"	"	
				0.0	18"	Brown silt w/some sand 5YR 3/2 Per Dry	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

3/30/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:** CY-N	
PROJECT NUMBE 231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks		
PROJECT LOCATI 3751 S. Harvard Blvd.		DATE STARTED: ~~3/31/2015~~ 4/1/15
DRILLED BY: ~~H&P~~ Global Probe DRILLER NAME:		DATE COMPLETED: ~~3/31/2015~~ 4/1/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3 " of Asphalt and "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:45	0.4	6"	Brown Sandy Silt w/some gravel WG1, 5YR 4/4 Dry Fine - ~~Coarse~~ Coarse grain	
					12"	"	
				0.0	18"	Brown Silty w/some sand 5YR 3/4 WG1 Dry Fine to med coarse grain	
					24"	" PG1	
					30"	Brown Silty w/clay 5YR 3/2 PG Dry fine grained	
				0.0	36"	Brown Silt w/clay 5YR 3/2 PG1 Dry fine grain	

DRILLING METHOD:
~~Direct Push~~/Hand Auger
~~DRILL RIG: 7800~~
~~BORING DIAMETER: 2"~~
HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED ~~4/4/2015~~ 4/1/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	GY-S
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asphalt 4" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			B:10	0.7	6"	Brown Sandy Silt w/ some gravel and clay 5YR 4/4 WG Dry Fine to coarse grain.	
					12"	"	
					18"	Brown Silt w/some Sand 5YR 3/4 WG Dry Fine grain	
				0.0	24"	"	
					30"	Brown Silt w/some sand 5YR-3/4 PG. Dry fine grain.	
					36"	Brown Silt w/ some clay 5YR-3/2 PG Dry Fine grain.	
				0.0	40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

4/1 /2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD 1-N	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL Rodney		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" of Asphalt + 1" Base See BD2	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:34	1.9	6"	Brown sandy silt w/gravel + little clay 5YR 3/4 GG	
					12"	Brown sandy silt w/gravel + cobbles of weak sandstone 5YR-5/6 Dry fine to coarse grain.	
				0.0	18"	Brown silt w/sand 5YR 3/2 WG Damp fine to coarse grain	
					24"	Brown silt, w/some sand 5YR 3/2 PG Dry	
					30"	1/	
				0.0	36"	1/	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2"
HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BD1-N	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						Fill of Asphalt / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:00	3.9	6"	Brown Sandy Silt w/ gravel + some clay 5YR 4/4 Wet Pump fine to coarse grain.	
					12"	11	
				0.1	18"	Brown clay silt w/ Sand 5YR 2/2 PG Pump fine grain	
					24"	Brown Silt w/ sand + gravel 5YR - 3/4 fine to coarse grain.	
					30"	11	
				0.0	36"	Brown silt w/ sand 5YR 3/2 PG Pump fine grain.	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BD1 - S	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: ~~SAL~~ Rodney		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						4" Asphalt / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:15	5.6	6"	Brown Sandy silt w/gravel + some clay 5YR 5/2 WG Damp fine to coarse grain	
				1.3	12"	"	
				0.0	18"	Brown clay w/sand 5YR 3/2 WG Damp fine grain	
				0.0	24"	"	
					30"	Brown silty clay 5YR 3/2 PG Damp fine grain	
				0.0	36"	Brown silty clay 5YR 3/2 PG Damp fine grain.	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BP1-W	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL Rodney		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						4" Asphalt / Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:01	0.9	6"	Brown sandy silt w/ gravel + some clay 5YR 3/4 wet Damp Fine to coarse grained.	
					12"	" 5YR 3/4	
				0.0	18"	Brown clay silt w/ some sand 5YR 3/2 PG Damp fine grained	
					24"	Brown silt w/ sand 5YR 3/2 PG Damp fine grained	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BD2-W	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" Asphalt / Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:00	2.3	6"	Orange / Brown Silty Sand fine to course grained SYR 5/6 WG Rasp.	
					12"	"	
				0.0	18"	"	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD2 - E	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" Asphalt / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:11	0.0	6"	Brown Silty sand w/ gravel & some clay 5YR 4/4 GG Damp fine to coarse grained.	
					12"	Brown sandy gravel little silt 5YR 3/4 GG Damp fine to coarse grain	
				0.0	18"	Orange & brown coarse sand 5YR - 5/6 GG Damp fine to coarse grained.	
					24"	Brown silt w/ sand & clay 5YR 3/2 GG Damp fine grain.	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD2-W	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" Asphalt/Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:30	3.2	6"	Brown orange sand w/ gravel and sandstones 5YR 5/6 GrGr Dry fine to coarse grain.	
					12"	Brown Sandy silt w/ gravel + some clay 5YR 3/4 WGr Dry fine to coarse grain	
				0.2	18"	11 5YR 2/2	
					24"	Brown silt w/ sand + pebbles 5YR 3/2 GrGr fine to coarse Damp	
					30"	Brown silt w/ sand 5YR 3/2 PGr Damp fine grain	
				0.0	36"	11	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

TRC

LOG OF SOIL BORING

PROJECT NAME: LAUSD Fosmay		SOIL BORING ID: BP2 -S	
PROJECT NUMBER: 231058.0000.0001	LOCATION:		SHEET 1 OF 1
LOGGED BY: CWicks			SURFACE ELEV.:
PROJECT LOCATION:	N:	E:	DATE STARTED: 3/31/15
DRILLED BY: GP	DRILLER NAME: SAL		DATE COMPLETED:

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" Asphalt & 5" Base	
			14:18	0.0	0.0	Silty Clay w/ Some (5%) Coarse Sand 5YR 2/2 mod Dense slight Mx Dense. w/ Pieces of Brick and possible Asphalt	
					1' 5.0		
					1' 7.5		
					0.0 2' 10.0	Silt Sand Fine to Coarse Brown 5YR 3/4 Pieces of Brick	
					3' 12.5	" "	
					0.03 6' 15.0	" " Chunk of Brick	
					17.5		
					20.0		

DRILLING METHOD
DRILL RIG
BORING DIAMETER

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

SIGNED DATE 3/31/15

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD3-N	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: ~~SAL~~ Rodney		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						4" Asphalt / Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:55	1.0	6"	Brown sandy silt w/ gravel + some clay 5YR 4/4 GRG dry fine to coarse -	
					12"	Brown sandy silt w/ clay 5YR 3/4 GR dry fine grain	
					18"	Brown silt w/ sand 5YR 3/2 PG dry fine grain	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2"
HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID:	SB3-S
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asphalt + Base 3" W.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:45	3.1	6"	Brown sandy silt w/ gravel + pieces of Brick 5YR 4/4 GG Dry fine to coarse grain	
				1.1	12"	Brown sandy silt w/ little clay 5YR - 3/4 PG Dry fine grain.	
				0.0	18"	Brown silt w/ sand 5YR-5/2 PG Dry fine grain.	
					24"	Brown clay silt 5YR-5/2 PG Dry fine grain.	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BDH-N	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						4" Asphalt / Base 3" 1"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:33	0.0	6"	Brown sandy silt 5YR 3/2 PG Dry fine grain	
					12"	Brown silt 5YR 3/2 PG Dry fine grain.	
				0.0	18"	"	
					24"	"	
					30"	Brown silt w/ some gravel 5YR-3/2 GG Dry fine to coarse	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	SP4 -E
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						4" Asphalt / Base 3" / 1"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:55	0.0	6"	Brown Silt 5YR 3/2 PR 25% fine grain.	
					12"	"	
				0.0	18"	"	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: ~~7800~~
BORING DIAMETER: 2"
HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY	**SOIL BORING ID:** BD 4-5	
PROJECT NUMBE 231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks		
PROJECT LOCATI 3751 S. Harvard Blvd.		DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" Asphalt/Base 3" 2"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:37	0.5	6"	Brown sandy silt some clay 5YR 4/4 WGR fine to course grained. Damp	
				0.0	12"	Brown sandy silt 5YR 7/2 PGR Dry fine to ~~to~~ grain	
					18"	"	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD4 - U	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" Asphalt / Base 3" 2"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:11	0.6	6"	Brown Sandy silt organic (Roots) 5YR 3/2 Dry PR	
				0.0	12"	"	
					18"	Brown silt w/ sand 5YR-3/2 PR Dry fine grain	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4 / 1 /2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	[redacted] BD6-N
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/30/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/30/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" B.S Asphalt & 1" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:36	0.0	6"	Brown ~~course~~ Sandy ~~Silt~~ Clay w/ gravel FYD 4/4 BG wet -> Due to Cooling	
					12"	Brown Sandy Silt w/coarse Sand RWG 5YR - 3/2	
					18"	Brown Sandy Silt w/clay PG 5YR - 3/2 wet Due to cooling	
					24"	11	
				0.0	30"	4	
					36"	9	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

[redacted] 3/30/15
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	SD6-E
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/30/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/30/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						0" – 3" of Asphalt 5" of Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
				0.0	6"	Brown Silty Sand w/ Gravel GG, 5YR 4/4 slightly moist fine to coarse – cobble.	
					12"	Brown Sandy Silt w some clay w/ PG 5YR (3/2) slightly moist mostly fines some coarse	
					18"	" "	
				0.0	24"	Brown Clay Silty w/sand WG (5YR 3/2) slightly moist mostly fines.	
					30"	" "	
				0.0	36"	" "	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED _____ DATE 3/30/15

CHECKED _____ DATE _____

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID:	BD6-[redacted]S
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" Asphalt / Base 3" 2"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:55	0.0	6"	Brown Sandy Silt w/gravel 5YR 4/4 GM Dry	
					12"	"	
				0.0	18"	Brown Silty SW/ some sand 5YR 3/2 PG fine grain Dry	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/30/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	BD7-N
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/30/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL/Rodney	DATE COMPLETED: 3/30/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
			13:55	0.0	6"	Sandy gravely silt w/ some clay and organics possible Base Fill w/some old asphalt	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
					12"		
					18"		
					24"		All Soil Excavate was used as Sample and capped Refer logging
					30"		
					36"		
					40"	Hand Augered w/Slide Hamer	
					48"		

DRILLING METHOD:	~~Direct Push~~ Hand Auger
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/30/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	BD7-E
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/30/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/30/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						See BD7S	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			12:23	0.0	6"	Gravelly Clay silt w/ little sand. 5YR 4/4 GG	
					12"	Gravelly Sandy silt w/ coarse sand. WG 5YR - 3/2	
				0.0	18"	Sandy silt w/ little clay 5YR 3/2 PG	
					24"	!	
				0.0	30"	!	
					36"	!	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/30/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	BD7-S1
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/30/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/30/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asphalt 4" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			12:06	0.0	6"	Brown Sandy Silt w/ Clay + Gravel 5YR-4/4 & CG	
					12"	Brown Sandy Silt w/ Some Clay 5YR-3/4 WG	
					18"	Brown Sandy Silt w/ little Clay 5YR-3/2 PG	
				0.0	24"		
					30"		
				0.0	36"		
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED _____ DATE 3/30/15

CHECKED _____ DATE _____

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BD7-W	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/30/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 3/30/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						6" Asp/Base 3" 3"	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:19	0.0	6"	Brown sand/gravel 5YR 5/4 fine (Cored through a rock or piece of ~~concrete~~ Boulder)	
					12"	(1	
				0.0	18"	Brown silt w/some sand 5YR 3/2 gravel pea not fine	
					24"	(1	
					30"	(1	
				0.0	36"	1 little gravel	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/3/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID:	BD15 -Na
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:55	0.2	6"	Brown clay silt 5YR 3/2 PG Damp fine grain Cracks some carbonic	
					12"	11	
				0.0	18"	Brown clay silt + some sand 5YR - 3/2 WG Damp fine grain	
					24"	Bon silt w/ some sand 5YR 3/2 PG Dry fine grain	
					30"	11	
				0.0	36"	11	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	SD15 KJb
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			15:25	0.2	6"	Brown Sandy silt little clay 5YR-4/4 PG (organics leaf/roots)	
				0.0	12"	"	
				0.0	18"	Brown silt w/some sand 5YR 3/2 wet dry fine grain	
				0.0	24"	Brown silt w/some sand 5YR 3/2 PG dry med-coarse to fine grain	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 4/1/2015

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID:	B015 - Ea
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			1530	0.0	6"	Brown sandy silt with some 5Y 4/6 WG Dry Fine to coarse grain (Detrital mechanical tears Roots Organics)	very loose soil
					12"	"	
				0.0	18"	Brown Sandy Silt + cobbles 5YR 3/2 GG Dry very coarse	
					24"	Brown silt w/ sand 5YR 3/2 PG Fine grain (Rooty)	
					30"	"	
				0.0	36"	" Hit concrete @ ~ 3.5' Possibly foundation?	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	BD15-Eb
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
			15:15	0.1	6"	light brown sandy silt 5YR 5/2 fine grained (Roots)	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
				0.0	12"	"	
					18"	"	
				0.0	24"	"	
					30"	could not go deeper hit concrete @ ~2' possibly foundation?	
					36"		
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	BD15 - WA
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 9 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:19	0.3	6"	Brown sandy silt w/ pebbles and little clay 5YR 5/2 WA Fine to coarse grain	
				0.0	12"	Brown Sandy silt w/ some clay 5YR 3/4 PA dry fine to coarse Grain.	
				0.0	18"	Brown Silt w/ some sand 5YR 3/2 PA dry fine grain	
					24"		
					30"		
				0.0	36"		
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2"	
HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1 /2015

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID:	SD15 - WB
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
			13:57	0.3	6"	Brown Sandy Silty w/ gravel 5YR-5/2 GG Dry fine to coarse grain	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
				0.0	12"	Brown sandy silt little clay 5YR-3/4 PG dry to fine grain.	
				0.0	18"	"	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD-23E	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/31/2015
DRILLED BY: H&P	DRILLER NAME:		DATE COMPLETED: 3/31/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
					0	3 " of Asphalt and 3 "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:25	0.0	6"	Sandy Clay 5YR 3/4 mod Dense wet	
					12"	Silty Sand w/ some clay Brown 5YR 3/4 loose Dense wet	
					18	"	
				0.0	24	"	
					30	"	
				0.0	36	Brown 5YR 3/2 Silty Sand (Fines) Damp	
					42		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4/4/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BD 23 -S	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/31/2015
DRILLED BY: H&P	DRILLER NAME:		DATE COMPLETED: 3/31/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3 " of Asphalt and "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:52	0.0	6"	Brown Silty sand w/some clay 5 YR 3/4 loose WG	
					12"	"	
				0.0	18"	Silty sand Brown 5YR 3/2 PG loose — slightly Dense	
					24"	"	
					30"	"	
				0.0	36	"	
					42		
					48		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

3/31/15

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	SB23-SW
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/31/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/31/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5 Asphalt 3-4" Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:15	0.0	6"	Silty Sand w/ Clay Brown 5 YR 5/4 Loose Dense Dry GWG	
					12"	" slightly Damp mod-loose WG	
				0.0	18"	"	
					24"	"	
					30"	Clay Silty Sand moist fines WG Dark 5YR 3/2	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 3/31/15 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD2 N	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/31/2015
DRILLED BY: ~~HBP~~ GP	DRILLER NAME:		DATE COMPLETED: 3/31/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3 " of Asphalt and 3 "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			10:30	0.0	6"	Brown Clay Sand w/Some Gravel 5YR-3/4 WG loose Dry.	
					12"	"	
					18"	Brown Sandy Silt 5YR-5/2 Pale Dry	
				0.0	24"	"	
					30"	"	
				0.0	36"	" Pump	

DRILLING METHOD:
Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2"
HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 3/31/15

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BP 24 E	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/31/2015
DRILLED BY: H&P	DRILLER NAME:		DATE COMPLETED: 3/31/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3 " of Asphalt and "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:55	1.0	6"	clay ~~silty~~ Sand w/ Some Gravel 5YR 3/4 wet loose Dry	
					12	" "	
					18	" "	
				0.0	24	" "	
					30	Broke ~~sile~~ Hammer off in hole. Out 3'.	
				0.0	36	NO SAMPLE	

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED DATE 3/31/15

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BP 24 - 5	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/31/2015
DRILLED BY: ~~HP~~ GP	DRILLER NAME:		DATE COMPLETED: 3/31/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3 " of Asphalt and "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:39	0.9	6"	Brown Sandy Silt 5YR-4/4 w/ some Gravel GG loose DRY	
					12"	Brown Sandy silt 5YR3/2 loose PG DRY	
				0.0	18"	" "	
					24"	" "	
					30"	Brown Sandy silt w/ some Clay 5YR 3/2 PG	
				0.0	36"	" "	

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

3/31/15

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:**	BD 24 - W
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/31/2015
DRILLED BY: ~~Hart~~ Ca P	DRILLER NAME:		DATE COMPLETED: 3/31/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3 " of Asphalt and 5 "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:29	0.0	6"	Brown Silty Sand. w/ Pebbles Dry loose 5YR 3/4 PG	
					12"	Brown Silty, Sand Dry loose 5YR 5/2 PG	
					18"	Brown Sandy Silt 5YR 5/2 PG	
				0.0	24"	"	
					30"	"	
				0.0	36"	"	

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

[redacted] 3/31/15

SIGNED DATE

CHECKED DATE

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LOG OF SOIL BORING

PROJECT NAME: Gateway (LAUSD)	SOIL BORING ID: BD25-N		
PROJECT NUMBER:	LOCATION:	SHEET 1 OF 1	
LOGGED BY: L. Wang		SURFACE ELEV.:	
PROJECT LOCATION:	N: E:	DATE STARTED: 3/31/15	
DRILLED BY: Global Probe	DRILLER NAME: ~~L. Wang~~ SAL	DATE COMPLETED:	

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
			14-32	0.0	0-2.5	Silty Sand w/ Clay (CL) and some gravel Dark Brown 5YR/2/2 GG Damp	
					2.5-5.0	Silty Sand w/ 15% clay WG Damp med Dense	
				0.0	5.0-7.5	"	
					7.5-10.0	"	
					10.0-12.5	"	
			3-6	0.0	15.0	Silty Sand w/ fine to coarse Grain WG slightly Damp 5YR/3/4	
					17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:			
DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

SIGNED [signature] DATE 3/31/15

CHECKED DATE

REVISED 06/2011

SQ 15-18

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	BP25-S
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/31/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/31/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:30	0.7	6"	Silty sand w/ some gravels moist dense slightly Damp. Brown 5YR 3/4 WG	
					12"	"	
				0.0	18"	"	
					24"	" 5YR 2/2	
					30"	Brown ~~Silty~~ Silty sand w/ clay " 5YR 2/2 Dense moist WG ~~Brown~~	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

3/31/15
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID:	BD25W
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 9 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 9 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asp 2 Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:15	0.0	6"	Dark Brown sandy silt w/ some clay 5YR 2/2 w/ pea pup fine grain.	
					12"	Could only log 1st 6" Rest was capped and Bagged out of Auger.	
					18"		
					24"		
					30"		
					36"		
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2"	
HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 9 / 1 /2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** SD 26-N	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 1 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 1 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asp 1" Base.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			9:15	3.3	6"	Brown sandy silt w/ little clay 5YR 4/4 PGR dry fine grain.	
				0.1	12"		
				0.0	18"	Brown silty sand 5YR 3/2 PGR damp fine grain	
					24"		
					30"		
				0.0	36"		
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	BP265 / Dup 6
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/31/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/31/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						8" 3" Asphalt 5" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:05	0.0	6"	Silty Sand w/ clay Dark Brown 5YR-2/2	
					12"	"	
					18"	"	
				0.0			
					24"	"	
					30"	Fine Sandy Silt w/some clay (5%) 5YR-2/2	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 3/31/15

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	B026-S
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/31/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/31/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:55	0.0	6"	Dark Brown ~~SH~~ Clay Silt w/ some Sand Damp 5YR 2/2	
					12"	1'	
				0.0	18"	11	
					24"	11	
					30"	11	
				0.0	36"	11 ~~Coarse~~ more Sand Coarse ~~SH~~ 5YR 2/2	
					40"		
					48"		

DRILLING METHOD: Direct Push
DRILL RIG: 7800
BORING DIAMETER: 2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

3/31/15

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD27-N	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asphalt 2" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			13:45	0.1	6"	Brown Sandy silt w/ gravel 8YR 4/4 fine to coarse grain.	
				0.0	12"	"	
				0.0	18"	Brown Sandy silt w/some gravel 5YR 3/2 wet Dry Fine to coarse	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

4/1/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID:	BD27-E
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/1/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/1/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3" Asph / 2" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			14:08	0.4	6"	Brown Sandy Silt w/ gravel + clay 5YR 4/4 Brn Damp fine to coarse grain	
				0.0	12"	"	
				0.0	18"	Brown silt w/ some sand 5YR 3/2 Dk Brn dry fine grain	
					24"	"	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4/1/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BD15 - EbN	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/4/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/4/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
							PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			11:20	1.3	6"	Brown Sandy Silt 5YR 4/4 Dry fine to coarse grain some Retrieves (Roots/Heats)	
				0.0	12"	## some pieces of Brick 5YR - 3/4	
				0.0	18"	Brown Silt w/ pieces of Brick 5YR 3/4 Dry fine grain.	
					24"	## Hit hard surface and could not Punch Through Probably footing/foundation.	
					30"		
					36"		
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

SIGNED 4/4/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		SOIL BORING ID: BD15-EbE	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4 / 4 /2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4 / 4 /2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
			11:11	0.8	6"	Brown Sandy Silt w/ little gravel 5YR-4/4 PG some leaf Root Debris-	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
				0.0	12"	Brown Sandy Silt 5YR3/4 PG Dry fine grain w/ Roots	
					18"	"	
				0.0	24"	Brown Silt 5YR3/2 PG Dry fine grain	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED 4/4/2015 DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** BD15-Eb5	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 1
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 4/4/2015
DRILLED BY: Global Probe	DRILLER NAME: SAL		DATE COMPLETED: 4/4/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
			12:13	0.0	6"	Brown sandy silt 5YR 4/4 WG Dry fine ~~to coarse~~ grain Some leafs/Roots.	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
					12"	"	
				0.0	18"	Brown Sandy Silt 5YR 3/2 WG Dry Fine to Coarse grain	
					24"	Brown Silt 5YR 3/2 PG Dry fine grain	
					30"	"	
				0.0	36"	"	
					40"		
					48"		

DRILLING METHOD: Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE: NA			
DATE	**TIME**	**DEPTH TO WATER**	**DEPTH TO CAVE-IN**
		NA	

4/4/2015
SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	SG-1 ~~GW-1~~
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 2
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 3/31/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/31/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
			7:50	0.0	6"	Brown (5YR 2/3) Silty sand ~~loose~~ slightly damp. loose	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
					12"	Brown silty fine grain 5YR 3/2 w/ sm gravel	
					18"	"	
					24"	"	
					30"	"	
					36"	"	
				0.0	40"	Silty sand coarse sand 10YR 5/4 Dry loose	
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED _____ DATE 3/31/15

CHECKED _____ DATE _____

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	SB-1
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 2 OF 2
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.	DATE STARTED:	3/31/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 3/31/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
			7:50	0.0	5'	Sand - med course 10 YR 5/4 some fine layer of clay	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
					6'		
					7'		
					8'		
			8:15	0.2	9'		
					10'	Silty clay with some Sand 5 YR 4/4 moist	
					11'		
					12'		
			8:25	0.1	13' 48"	DG/ Coarse Sand w/ some clay 10 YR 5/6 light Brown	

DRILLING METHOD:	Direct Push
DRILL RIG:	7800
BORING DIAMETER:	2

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 3/31/15

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** SG-2	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 1 Of 2
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/31/2015
DRILLED BY: H&P	DRILLER NAME:		DATE COMPLETED: 3/31/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						3 " of Asphalt and 2 "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:48	0.0	6"	Brown (5YR 2/3) silty sand w/ debris ~~Slight~~ PEA loose	first few feet were compressed. (very loose)
					12	1'	
					18	1'	
					24	1'	
					30	1'	
				0.2	36	1'	
				0.2	42	Course Sand . 10YR 5/4 wet- 6"	
					48		

DRILLING METHOD: Direct Push/ Hand Auger	
DRILL RIG: 7800	
BORING DIAMETER: 2" HAND AUGER DIAMETER: 3"	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

3/31/15

SIGNED DATE

CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME: LAUSD FOSHAY SOIL SURVEY		**SOIL BORING ID:** SG-2	
PROJECT NUMBE 231058.0000.0004		LOCATION: FOSHAY LEARNING CENTER	SHEET 2 OF 2
LOGGED BY: Logan Wicks			
PROJECT LOCATI 3751 S. Harvard Blvd.			DATE STARTED: 3/31/2015
DRILLED BY: H&P	DRILLER NAME:		DATE COMPLETED: 3/31/2015

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						~~3 "of Asphalt and~~ "base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			8:38	0.2	5'	Brown Silty Sand / Sandy Clay PG 10 YR - 4 1/2	
						1'	
						11	
			8:48	0.3	10'	fine Sand 10 YR - 5/4 PG ~ 1'-2'	
						11	
			9:00	0.2	15'	Silty Clay 5 YR - 3/4 PG Range.	

DRILLING METHOD:
Direct Push/ Hand Auger
DRILL RIG: 7800
BORING DIAMETER: 2"
HAND AUGER DIAMETER: 3"

WATER LEVEL OBSERVATIONS			
FIRST OCCURRENCE:		NA	
DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 3/31/15 CHECKED DATE

LOG OF SOIL BORING

PROJECT NAME:	LAUSD FOSHAY SOIL SURVEY	SOIL BORING ID:	PS-1 / Dup 8
PROJECT NUMBER:	231058.0000.0004	LOCATION: FOSHAY LEARNING CENTER	SHEET 1 OF 2
LOGGED BY:	Logan Wicks		
PROJECT LOCATION:	3751 S. Harvard Blvd.		DATE STARTED: 4/1/15
DRILLED BY:	Global Probe	DRILLER NAME: SAL	DATE COMPLETED: 4/1/15

NO.	TYPE	%	TIME	PID*	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
						5" Asphalt 4" Base	PID= MiniRae 2000 Photo Ionization Detector calibrated with 100 ppm hexane standard.
			16:15	0.0	6"	Light Brown 10YR 4/2 Sandy Silt fine grain w/ some Gravel GG DG	
					12"	Light Brown 10YR 4/2 Silt fine grain PG DG loose	
					18"	"	
					24"	"	
					30"	"	
				0.0	36"	Brown Silt 5YR 4/4 loose PG	
					40"	" "	
					48"		

DRILLING METHOD:	Direct Push
DRILL RIG: 7800	
BORING DIAMETER: 2	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE: NA

DATE	TIME	DEPTH TO WATER	DEPTH TO CAVE-IN
		NA	

SIGNED DATE 4/1/15

CHECKED DATE

TRC

LOG OF SOIL BORING

PROJECT NAME:		**SOIL BORING ID:** B PS-1	
PROJECT NUMBER:		LOCATION:	SHEET 2 OF 2
LOGGED BY:			SURFACE ELEV.:
PROJECT LOCATION:		N: E:	DATE STARTED:
DRILLED BY:	DRILLER NAME:		DATE COMPLETED:

NO.	TYPE	%	BLOWS	PID	DEPTH	VISUAL CLASSIFICATION AND OBSERVATIONS	COMMENT
				0.0	6' 2.5	Silty Sand loose 10YR 5/4 PG	
					7' 5.0		
					8' 7.5		
				0.0	9' 10.0		
					10' 12.5		
					11' 15.0		
				0.0	12' 17.5		
					20.0		

DRILLING METHOD	
DRILL RIG	
BORING DIAMETER	

WATER LEVEL OBSERVATIONS

FIRST OCCURRENCE:

DATE	TIME	DEPTH TO WATER	DEPTH TO BOTTOM

SIGNED DATE 11/1/15

CHECKED DATE

REVISED 06/2011

PROJECT NO.: 231058	DATE DRILLED: 11-11-15
LOCATION: FOSHAY LEARNING CENTER	LOGGED BY: R. SURRENCY, PG
STREET: 3751 S. HARVARD BLVD	APPROVED BY: R. SURRENCY, PG
CITY: LOS ANGELES	DRILLING CO./RIG: N/A

DRILLING METHOD: SLIDE HAMMER DIAMETER: 1.5 inches
SAMPLER TYPE: SLIDE HAMMER
TOTAL DEPTH: 1.0 DEPTH TO WATER: NA

SCREEN SLOT SIZE:
TYPE OF SANDPACK:

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG
			0	Hand-Augered/Air Knifed to: ____ feet. Surface Material: ____		
	0.2			0-1 SILTY SAND, DARK BROWN (7.5YR 3/2) SL. MOIST, FINE GRAINED, MICACEOUS		
			5			
			10			
			15			
			20			
			25			
			30			
			35			
			40			

TRC

FIELD LOG OF EXPLORATORY BORING

WELL/BORING No. BD14-Ea

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ORDER: MATERIAL, COLOR, DENSITY, MOISTURE, GRAIN SIZE, MINOR CONSTITUENT(S)

PROJECT NO.: 231058	DATE DRILLED: 11-11-15
LOCATION: FOSHAY LEARNING CENTER	LOGGED BY: R. SURRENCY, PG
STREET: 3751 S. HARVARD BLVD	APPROVED BY: R. SURRENCY, PG
CITY: LOS ANGELES	DRILLING CO./RIG: N/A

DRILLING METHOD: DIAMETER: inches

SAMPLER TYPE: SLIDE HAMMER

TOTAL DEPTH: 1.0 DEPTH TO WATER: NA

SCREEN SLOT SIZE:

TYPE OF SANDPACK:

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG
	4.2	I	0	Hand-Augered/Air Knifed to:_____feet. Surface Material:_____		
				0-1 SILTY SAND, DARK BROWN (7.5YR 3/2) SL MOIST, FINE GRAINED, MICACEOUS		
			5			
			10			
			15			
			20			
			25			
			30			
			35			
			40			

TRC

FIELD LOG OF EXPLORATORY BORING

WELL/BORING No. BD 14-Eb

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ORDER: MATERIAL, COLOR, DENSITY, MOISTURE, GRAIN SIZE, MINOR CONSTITUENT(S)

PROJECT NO.: 231058	DATE DRILLED: 11-11-15
LOCATION: FOSHAY LEARNING CENTER	LOGGED BY: R. SURRENCY, PG
STREET: 3751 S. HARVARD BLVD	APPROVED BY: R. SURRENCY, PG
CITY: LOS ANGELES	DRILLING CO./RIG: N/A

DRILLING METHOD: DIAMETER: inches

SAMPLER TYPE: SLIDE HAMMER

TOTAL DEPTH: 1.0 DEPTH TO WATER: NA

SCREEN SLOT SIZE:

TYPE OF SANDPACK:

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG
	7.5		0	Hand-Augered/Air Knifed to:_____feet. Surface Material:_____		
				0-1 SILTY SAND, DARK BROWN (7.5YR 3/2) SL MOIST, FINE GRAINED, SL MICACEOUS, TR GRAVEL		
			5			
			10			
			15			
			20			
			25			
			30			
			35			
			40			

TRC

FIELD LOG OF EXPLORATORY BORING

WELL/BORING No. BD14-E6

ORDER: MATERIAL, COLOR, DENSITY, MOISTURE, GRAIN SIZE, MINOR CONSTITUENT(S)

PROJECT NO.: 231058	DATE DRILLED: 11-14-15
LOCATION: FOSHAY LEARNING CENTER	LOGGED BY: R. SURRENCY, PG
STREET: 3751 S. HARVARD BLVD	APPROVED BY: R. SURRENCY, PG
CITY: LOS ANGELES	DRILLING CO./RIG: N/A

DRILLING METHOD: DIAMETER: inches

SAMPLER TYPE: SLIDE HAMMER

TOTAL DEPTH: 1.0 DEPTH TO WATER: N/A

SCREEN SLOT SIZE:

TYPE OF SANDPACK:

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG
	7.8		0	Hand-Augered/Air Knifed to:_____feet. Surface Material:_____		
				0-1 SILTY SAND, DARK BROWN (7.5YR 3/2), SL MOIST, FINE GRAINED, & MICACEOUS		
			5			
			10			
			15			
			20			
			25			
			30			
			35			
			40			

TRC

FIELD LOG OF EXPLORATORY BORING

WELL/BORING No. BD14-Ed

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ORDER: MATERIAL, COLOR, DENSITY, MOISTURE, GRAIN SIZE, MINOR CONSTITUENT(S)

PROJECT NO.: 231058	DATE DRILLED: 11-11-15
LOCATION: FOSHAY LEARNING CENTER	LOGGED BY: R. SURRENCY, PG
STREET: 3751 S. HARVARD BLVD	APPROVED BY: R. SURRENCY, PG
CITY: LOS ANGELES	DRILLING CO./RIG: N/A

DRILLING METHOD: DIAMETER: inches

SAMPLER TYPE: SLIDE HAMMER

TOTAL DEPTH: 1.0 DEPTH TO WATER: NA

SCREEN SLOT SIZE:

TYPE OF SANDPACK:

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG
	9.5		0	Hand-Augered/Air Knifed to:_____feet. Surface Material:_____		
				0-1 SILTY SAND, DARK BROWN (7.5 YR 3/2) SL MOIST, FINE GRAINED, SL MICACEOUS TRACE FINE GRAVEL		
			5			
			10			
			15			
			20			
			25			
			30			
			35			
			40			

TRC

FIELD LOG OF EXPLORATORY BORING

WELL/BORING No. BD14-Ee

ORDER: MATERIAL, COLOR, DENSITY, MOISTURE, GRAIN SIZE, MINOR CONSTITUENT(S)

PROJECT NO.: 231058	DATE DRILLED: 11-11-15
LOCATION: FOSHAY LEARNING CENTER	LOGGED BY: R. SURRENCY, PG
STREET: 3751 S. HARVARD BLVD	APPROVED BY: R. SURRENCY, PG
CITY: LOS ANGELES	DRILLING CO./RIG: N/A

DRILLING METHOD: DIAMETER: inches

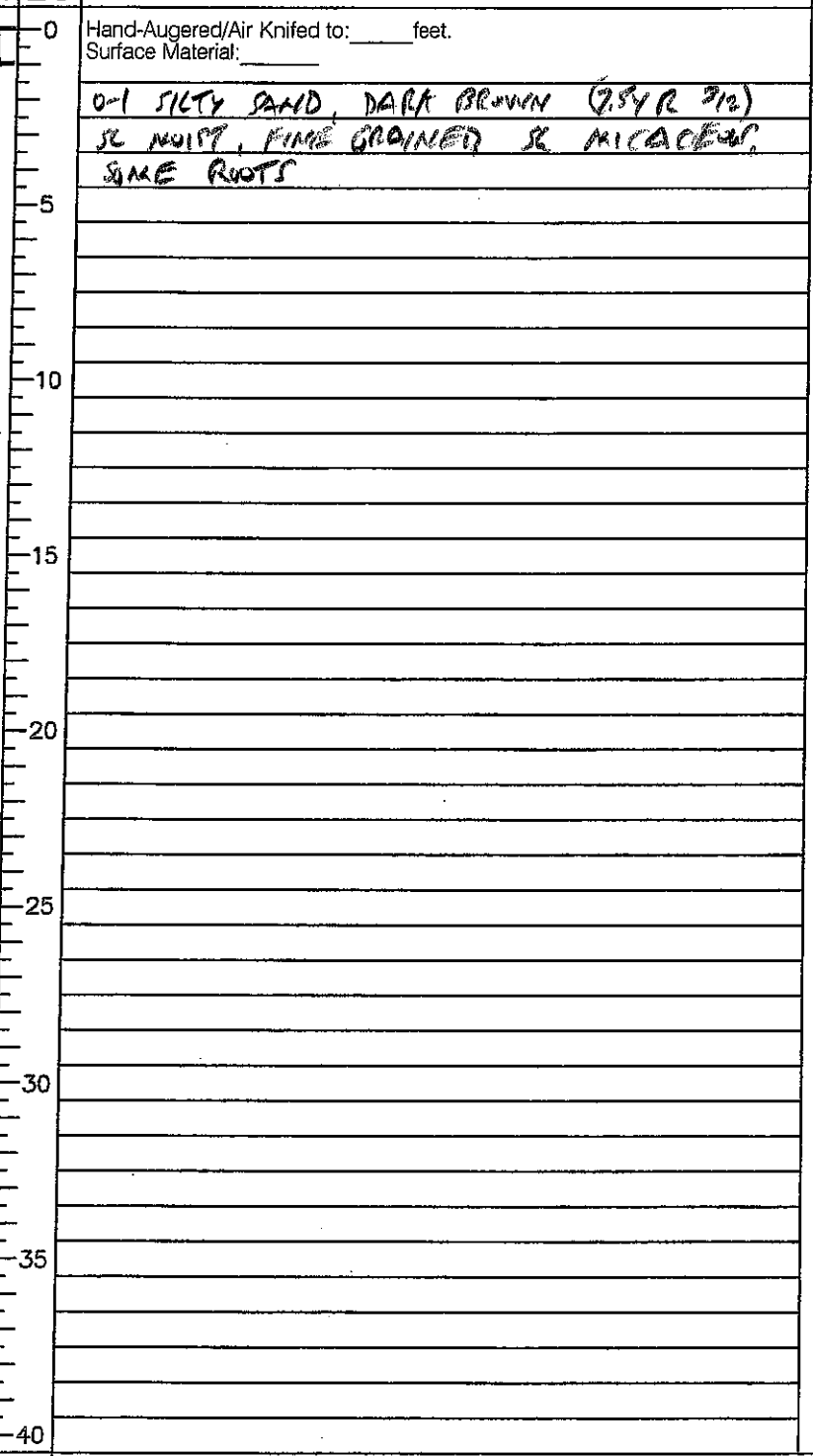
SAMPLER TYPE: SLIDE HAMMER

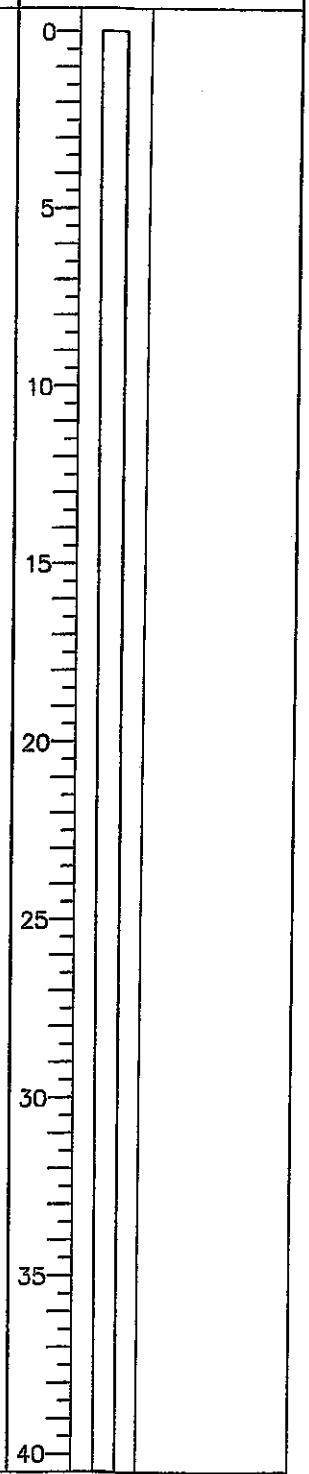
TOTAL DEPTH: 1.0 DEPTH TO WATER: N/A

SCREEN SLOT SIZE:

TYPE OF SANDPACK:

BLOWS PER 6 INCHES	PID (ppmv)	SAMPLE	DEPTH (feet below grade)	DESCRIPTION	USCS	GRAPHIC LOG
	16.4		0	Hand-Augered/Air Knifed to:_____feet. Surface Material:_____		
				0-1 SILTY SAND, DARK BROWN (7.5YR 3/2) SL MOIST, FINE GRAINED & MICACEOUS, SOME ROOTS		





TRC

FIELD LOG OF EXPLORATORY BORING

WELL/BORING No. BD14-Ef

ORDER: MATERIAL, COLOR, DENSITY, MOISTURE, GRAIN SIZE, MINOR CONSTITUENT(S)

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

H&P Mobile Geochemistry Inc.

04 May 2015

Mr. John Gonzales
TRC Solutions - Los Angeles
707 Wilshire Blvd, Suite 3250
Los Angeles, CA 90017

H&P Project: TRC033115-A2 Rev
Client Project: 231058 / 3751 S. Harvard Blvd

Dear Mr. John Gonzales:

Enclosed is the analytical report for the above referenced project. The data herein applies to samples as received by H&P Mobile Geochemistry, Inc. on 31-Mar-15 which were analyzed in accordance with the attached Chain of Custody record(s).

The results for all sample analyses and required QA/QC analyses are presented in the following sections and summarized in the documents:

- Sample Summary
- Case Narrative (if applicable)
- Sample Results
- Quality Control Summary
- Notes and Definitions / Appendix
- Chain of Custody

Unless otherwise noted, I certify that all analyses were performed and reviewed in compliance with our Quality Systems Manual and Standard Operating Procedures. This report shall not be reproduced, except in full, without the written approval of H&P Mobile Geochemistry, Inc.

We at H&P Mobile Geochemistry, Inc. sincerely appreciate the opportunity to provide analytical services to you on this project. If you have any questions or concerns regarding this analytical report, please contact me at your convenience at 760-804-9678.

Sincerely,

Janis Villarreal

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry, Inc. is certified under the California ELAP, the National Environmental Laboratory Accreditation Conference (NELAC) and the Department of Defense Accreditation Programs.

H&P Mobile
Geochemistry Inc.

2470 Impala Drive
Carlsbad, CA 92010
760-804-9678 Phone
760-804-9159 Fax

TRC Solutions - Los Angeles	Project: TRC033115-A2 Rev	
707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG1-15', 1PV	E503145-01	Vapor	31-Mar-15	31-Mar-15
SG1-15', 3PV	E503145-02	Vapor	31-Mar-15	31-Mar-15
SG1-15', 10PV	E503145-03	Vapor	31-Mar-15	31-Mar-15
SG1-5'	E503145-04	Vapor	31-Mar-15	31-Mar-15
SG2-5'	E503145-05	Vapor	31-Mar-15	31-Mar-15
SG2-15'	E503145-06	Vapor	31-Mar-15	31-Mar-15
SG2-15' Rep	E503145-07	Vapor	31-Mar-15	31-Mar-15

The leak check compound (LCC), 1,1-Difluoroethane, was present in sample SG2-5' at a concentration of 220 ug/m3.

H&P Mobile
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TRC Solutions - Los Angeles	Project: TRC033115-A2 Rev	
707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

DETECTIONS SUMMARY

Sample ID: **SG1-15', 1PV** Laboratory ID: **E503145-01**

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	**97**	48	ug/m3	H&P TO-15	
Benzene	**17**	16	ug/m3	H&P TO-15	
o-Xylene	**23**	22	ug/m3	H&P TO-15	

Sample ID: **SG1-15', 3PV** Laboratory ID: **E503145-02**

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	**100**	48	ug/m3	H&P TO-15	

Sample ID: **SG1-15', 10PV** Laboratory ID: **E503145-03**

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	**96**	48	ug/m3	H&P TO-15	

Sample ID: **SG1-5'** Laboratory ID: **E503145-04**

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	**300**	48	ug/m3	H&P TO-15	
2-Butanone (MEK)	**76**	60	ug/m3	H&P TO-15	
Carbon tetrachloride	**16**	13	ug/m3	H&P TO-15	
4-Methyl-2-pentanone (MIBK)	**100**	41	ug/m3	H&P TO-15	

Sample ID: **SG2-5'** Laboratory ID: **E503145-05**

Analyte	Result	Reporting Limit	Units	Method	Notes
1,1-Difluoroethane (LCC)	**220**	27	ug/m3	H&P TO-15	
Acetone	**230**	48	ug/m3	H&P TO-15	
4-Methyl-2-pentanone (MIBK)	**42**	41	ug/m3	H&P TO-15	

Sample ID: **SG2-15'** Laboratory ID: **E503145-06**

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	**72**	48	ug/m3	H&P TO-15	
Tetrachloroethene	**51**	34	ug/m3	H&P TO-15	

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TRC Solutions - Los Angeles	Project: TRC033115-A2 Rev	
707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Sample ID: **SG2-15' Rep** Laboratory ID: **E503145-07**

Analyte	Result	Reporting Limit	Units	Method	Notes
Acetone	**140**	48	ug/m3	H&P TO-15	
Tetrachloroethene	**36**	34	ug/m3	H&P TO-15	
TPHv (C5 - C12)	**1300**	500	ug/m3	H&P TO-15	GC-03

H&P Mobile
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TRC Solutions - Los Angeles	Project: TRC033115-A2 Rev	
707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-15', 1PV (E503145-01) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Dichlorodifluoromethane (F12)	ND	50	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	**97**	48	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	31	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	36	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	42	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	42	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	**17**	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	42	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	

H&P Mobile
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2470 Impala Drive
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760-804-9678 Phone
760-804-9159 Fax

TRC Solutions - Los Angeles	Project: TRC033115-A2 Rev	
707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-15', 1PV (E503145-01) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,2-Dibromoethane (EDB)	ND	39	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	
o-Xylene	**23**	22	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.7 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*105 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*		*56-127*	"	"	"	"	
SG1-15', 3PV (E503145-02) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Dichlorodifluoromethane (F12)	ND	50	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	**100**	48	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	31	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	

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TRC Solutions - Los Angeles	Project: TRC033115-A2 Rev	
707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-15', 3PV (E503145-02) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
trans-1,2-Dichloroethene	ND	40	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Methyl tertiary-butyl ether (MTBE)	ND	36	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	42	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	42	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	42	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	

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TRC Solutions - Los Angeles	Project: TRC033115-A2 Rev	
707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-15', 3PV (E503145-02) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,2-Dichlorobenzene	ND	61	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*107 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.7 %*		*56-127*	"	"	"	"	
SG1-15', 10PV (E503145-03) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Dichlorodifluoromethane (F12)	ND	50	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	**96**	48	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	31	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	36	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	42	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	42	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	42	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	

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707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-15', 10PV (E503145-03) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,2-Dichloropropane	ND	47	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*118 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*109 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.7 %*		*56-127*	"	"	"	"	

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707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-5' (E503145-04) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Dichlorodifluoromethane (F12)	ND	50	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	**300**	48	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	31	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	36	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	**76**	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	42	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	42	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	**16**	13	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	42	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	**100**	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	

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707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
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Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-5' (E503145-04) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,2-Dibromoethane (EDB)	ND	39	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.2 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*103 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.1 %*		*56-127*	"	"	"	"	
SG2-5' (E503145-05) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,1-Difluoroethane (LCC)	**220**	27	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Dichlorodifluoromethane (F12)	ND	50	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	**230**	48	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	31	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-5' (E503145-05) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
trans-1,2-Dichloroethene	ND	40	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Methyl tertiary-butyl ether (MTBE)	ND	36	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	42	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	42	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	42	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	**42**	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	ND	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	

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Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-5' (E503145-05) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,2-Dichlorobenzene	ND	61	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*122 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*111 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.7 %*		*56-127*	"	"	"	"	
SG2-15' (E503145-06) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Dichlorodifluoromethane (F12)	ND	50	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	**72**	48	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	31	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	36	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	42	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	42	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	42	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	

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TRC Solutions - Los Angeles	Project: TRC033115-A2 Rev	
707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-15' (E503145-06) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,2-Dichloropropane	ND	47	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	**51**	34	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	39	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*125 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*106 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.1 %*		*56-127*	"	"	"	"	

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Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-15' Rep (E503145-07) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,1-Difluoroethane (LCC)	ND	27	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
Dichlorodifluoromethane (F12)	ND	50	"	"	"	"	"	"	
Chloromethane	ND	21	"	"	"	"	"	"	
Dichlorotetrafluoroethane (F114)	ND	71	"	"	"	"	"	"	
Vinyl chloride	ND	13	"	"	"	"	"	"	
Bromomethane	ND	39	"	"	"	"	"	"	
Chloroethane	ND	27	"	"	"	"	"	"	
Trichlorofluoromethane (F11)	ND	56	"	"	"	"	"	"	
Acetone	**140**	48	"	"	"	"	"	"	
1,1-Dichloroethene	ND	20	"	"	"	"	"	"	
Tertiary-butyl alcohol (TBA)	ND	31	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"	"	"	"	"	"	
Methylene chloride (Dichloromethane)	ND	35	"	"	"	"	"	"	
Carbon disulfide	ND	32	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Methyl tertiary-butyl ether (MTBE)	ND	36	"	"	"	"	"	"	
1,1-Dichloroethane	ND	41	"	"	"	"	"	"	
2-Butanone (MEK)	ND	60	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	40	"	"	"	"	"	"	
Diisopropyl ether (DIPE)	ND	42	"	"	"	"	"	"	
Chloroform	ND	25	"	"	"	"	"	"	
Ethyl tert-butyl ether (ETBE)	ND	42	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	28	"	"	"	"	"	"	
1,2-Dichloroethane (EDC)	ND	21	"	"	"	"	"	"	
Benzene	ND	16	"	"	"	"	"	"	
Carbon tetrachloride	ND	13	"	"	"	"	"	"	
Tertiary-amyl methyl ether (TAME)	ND	42	"	"	"	"	"	"	
Trichloroethene	ND	27	"	"	"	"	"	"	
1,2-Dichloropropane	ND	47	"	"	"	"	"	"	
Bromodichloromethane	ND	68	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
4-Methyl-2-pentanone (MIBK)	ND	41	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	46	"	"	"	"	"	"	
Toluene	ND	38	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	55	"	"	"	"	"	"	
2-Hexanone (MBK)	ND	41	"	"	"	"	"	"	
Dibromochloromethane	ND	86	"	"	"	"	"	"	
Tetrachloroethene	**36**	34	"	"	"	"	"	"	

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707 Wilshire Blvd, Suite 3250	Project Number: 231058 / 3751 S. Harvard Blvd	Reported:
Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Volatile Organic Compounds by H&P Method TO-15

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG2-15' Rep (E503145-07) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
1,2-Dibromoethane (EDB)	ND	39	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
1,1,1,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
Chlorobenzene	ND	23	"	"	"	"	"	"	
Ethylbenzene	ND	22	"	"	"	"	"	"	
m,p-Xylene	ND	44	"	"	"	"	"	"	
Styrene	ND	43	"	"	"	"	"	"	
o-Xylene	ND	22	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	70	"	"	"	"	"	"	
4-Ethyltoluene	ND	50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	50	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	61	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	61	"	"	"	"	"	"	
Naphthalene	ND	27	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	75	"	"	"	"	"	"	
Hexachlorobutadiene	ND	110	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*130 %*		*67-141*	"	"	"	"	
Surrogate: Toluene-d8		*110 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*		*56-127*	"	"	"	"	

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Petroleum Hydrocarbon Analysis

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SG1-15', 1PV (E503145-01) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
TPHv (C5 - C12)	ND	500	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
SG1-15', 3PV (E503145-02) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
TPHv (C5 - C12)	ND	500	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
SG1-15', 10PV (E503145-03) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
TPHv (C5 - C12)	ND	500	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
SG1-5' (E503145-04) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
TPHv (C5 - C12)	ND	500	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
SG2-5' (E503145-05) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
TPHv (C5 - C12)	ND	500	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
SG2-15' (E503145-06) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
TPHv (C5 - C12)	ND	500	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	
SG2-15' Rep (E503145-07) Vapor Sampled: 31-Mar-15 Received: 31-Mar-15									
TPHv (C5 - C12)	**1300**	500	ug/m3	1	EC53105	31-Mar-15	31-Mar-15	H&P TO-15	GC-03

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Volatile Organic Compounds by H&P Method TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC53105 - TO-15										
Blank (EC53105-BLK1)				Prepared & Analyzed: 31-Mar-15						
1,1-Difluoroethane (LCC)	ND	27	ug/m3							
Dichlorodifluoromethane (F12)	ND	50	"							
Chloromethane	ND	21	"							
Dichlorotetrafluoroethane (F114)	ND	71	"							
Vinyl chloride	ND	13	"							
Bromomethane	ND	39	"							
Chloroethane	ND	27	"							
Trichlorofluoromethane (F11)	ND	56	"							
Acetone	ND	48	"							
1,1-Dichloroethene	ND	20	"							
Tertiary-butyl alcohol (TBA)	ND	31	"							
1,1,2-Trichlorotrifluoroethane (F113)	ND	77	"							
Methylene chloride (Dichloromethane)	ND	35	"							
Carbon disulfide	ND	32	"							
trans-1,2-Dichloroethene	ND	40	"							
Methyl tertiary-butyl ether (MTBE)	ND	36	"							
1,1-Dichloroethane	ND	41	"							
2-Butanone (MEK)	ND	60	"							
cis-1,2-Dichloroethene	ND	40	"							
Diisopropyl ether (DIPE)	ND	42	"							
Chloroform	ND	25	"							
Ethyl tert-butyl ether (ETBE)	ND	42	"							
1,1,1-Trichloroethane	ND	28	"							
1,2-Dichloroethane (EDC)	ND	21	"							
Benzene	ND	16	"							
Carbon tetrachloride	ND	13	"							
Tertiary-amyl methyl ether (TAME)	ND	42	"							
Trichloroethene	ND	27	"							
1,2-Dichloropropane	ND	47	"							
Bromodichloromethane	ND	68	"							
cis-1,3-Dichloropropene	ND	46	"							
4-Methyl-2-pentanone (MIBK)	ND	41	"							
trans-1,3-Dichloropropene	ND	46	"							
Toluene	ND	38	"							

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Volatile Organic Compounds by H&P Method TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC53105 - TO-15										
Blank (EC53105-BLK1)				Prepared & Analyzed: 31-Mar-15						
1,1,2-Trichloroethane	ND	55	ug/m3							
2-Hexanone (MBK)	ND	41	"							
Dibromochloromethane	ND	86	"							
Tetrachloroethene	ND	34	"							
1,2-Dibromoethane (EDB)	ND	39	"							
1,1,1,2-Tetrachloroethane	ND	70	"							
Chlorobenzene	ND	23	"							
Ethylbenzene	ND	22	"							
m,p-Xylene	ND	44	"							
Styrene	ND	43	"							
o-Xylene	ND	22	"							
Bromoform	ND	100	"							
1,1,2,2-Tetrachloroethane	ND	70	"							
4-Ethyltoluene	ND	50	"							
1,3,5-Trimethylbenzene	ND	50	"							
1,2,4-Trimethylbenzene	ND	50	"							
1,3-Dichlorobenzene	ND	61	"							
1,4-Dichlorobenzene	ND	61	"							
1,2-Dichlorobenzene	ND	61	"							
Naphthalene	ND	27	"							
1,2,4-Trichlorobenzene	ND	75	"							
Hexachlorobutadiene	ND	110	"							
Surrogate: 1,2-Dichloroethane-d4	*978*		*"*	*886*		*110*	*67-141*			
Surrogate: Toluene-d8	*921*		*"*	*864*		*107*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1540*		*"*	*1540*		*100*	*56-127*			
LCS (EC53105-BS1)				Prepared & Analyzed: 31-Mar-15						
Dichlorodifluoromethane (F12)	260	50	ug/m3	250		104	65-135			
Vinyl chloride	120	13	"	130		91.6	65-135			
Chloroethane	150	27	"	134		113	65-135			
Trichlorofluoromethane (F11)	280	56	"	283		97.7	65-135			
1,1-Dichloroethene	190	20	"	202		94.7	65-135			
1,1,2-Trichlorotrifluoroethane (F113)	340	77	"	387		88.7	65-135			

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Volatile Organic Compounds by H&P Method TO-15 - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC53105 - TO-15										
LCS (EC53105-BS1)				Prepared & Analyzed: 31-Mar-15						
Methylene chloride (Dichloromethane)	170	35	ug/m3	177		97.9	65-135			
trans-1,2-Dichloroethene	150	40	"	202		72.0	65-135			
1,1-Dichloroethane	190	41	"	206		92.3	65-135			
cis-1,2-Dichloroethene	160	40	"	202		80.5	65-135			
Chloroform	230	25	"	247		91.6	65-135			
1,1,1-Trichloroethane	230	28	"	276		81.6	65-135			
1,2-Dichloroethane (EDC)	200	21	"	206		96.0	65-135			
Benzene	130	16	"	162		81.2	65-135			
Carbon tetrachloride	310	13	"	320		96.9	65-135			
Trichloroethene	240	27	"	272		88.5	65-135			
Toluene	160	38	"	191		82.0	65-135			
1,1,2-Trichloroethane	270	55	"	276		97.6	65-135			
Tetrachloroethene	280	34	"	345		80.0	65-135			
1,1,1,2-Tetrachloroethane	350	70	"	349		99.6	65-135			
Ethylbenzene	160	22	"	220		71.1	65-135			
m,p-Xylene	310	44	"	440		71.4	65-135			
o-Xylene	160	22	"	220		74.5	65-135			
1,1,2,2-Tetrachloroethane	320	70	"	349		90.7	65-135			
Surrogate: 1,2-Dichloroethane-d4	*1120*		*"*	*886*		*126*	*67-141*			
Surrogate: Toluene-d8	*917*		*"*	*864*		*106*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*1430*		*"*	*1540*		*92.7*	*56-127*			

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Los Angeles, CA 90017	Project Manager: Mr. John Gonzales	04-May-15 10:34

Petroleum Hydrocarbon Analysis - Quality Control

H&P Mobile Geochemistry, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC53105 - TO-15										
Blank (EC53105-BLK1)				Prepared & Analyzed: 31-Mar-15						
TPHv (C5 - C12)	ND	500	ug/m3							

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Notes and Definitions

GC-03	The result for this hydrocarbon is elevated due to the presence of a single peak analyte(s) in the quantitation range.
LCC	Leak Check Compound
ND	Analyte NOT DETECTED at or above the reporting limit
MDL	Method Detection Limit
%REC	Percent Recovery
RPD	Relative Percent Difference

Appendix

H&P Mobile Geochemistry, Inc. is approved as an Environmental Testing Laboratory and Mobile Laboratory in accordance with the DoD-ELAP and the ISO 17025 programs, certification number L11-175.

H&P is approved by the State of Arizona as an Environmental Testing Laboratory and Mobile Laboratory, certification numbers AZM758 and AZ0779.

H&P is approved by the State of California as an Environmental Laboratory and Mobile Laboratory in conformance with the Environmental Laboratory Accreditation Program (ELAP) for the category of Volatile and Semi-Volatile Organic Chemistry of Hazardous Waste, certification numbers 2740, 2741, 2743, 2744, 2745, 2754 & 2930.

H&P is approved by the State of Florida Department of Health under the National Environmental Laboratory Accreditation Conference (NELAC) certification number E871100.

The complete list of stationary and mobile laboratory certifications along with the fields of testing (FOTs) and analyte lists are available at www.handpmg.com/about/certifications.

H&P Mobile Geochemistry, Inc.

2470 Impala Drive, Carlsbad, CA 92010
& Field Office - Signal Hill, CA
W handpmg.com E info@handpmg.com
P 760.804.9678 F 760.804.9159

VAPOR / AIR Chain of Custody

DATE: 3/31/15
Page 1 of ____

Lab Client and Project Information

Lab Client/Consultant: TRC Solutions	Project Name / #: 231058
Lab Client Project Manager: John Gonzalez	Project Location: 3751 S. Harvard Blvd
Lab Client Address: 707 Wilshire Blvd Ste 3250	Report E-Mail(s): jgonzales@trcsolutions.com
Lab Client City, State, Zip: Los Angeles CA	
Phone Number:	

Sample Receipt (Lab Use Only)

Date Rec'd: 3/31/15	Control #: 150259.01
H&P Project #: TRC033115-A2	
Lab Work Order #: E503145	
Sample Intact: X ☒ Yes ☐ No ☐ See Notes Below	
Receipt Gauge ID: X	Temp: on site
Outside Lab:	
Receipt Notes/Tracking #: EC53105	
Lab PM Initials:	

Reporting Requirements

☒ Standard Report ☐ Level III ☐ Level IV
☒ Excel EDD ☐ Other EDD:_____
☐ CA Geotracker Global ID:_____

Turnaround Time

☐ 5-7 day Stnd ☐ 24-Hr Rush
☐ 3-day Rush ☒ Mobile Lab
☐ 48-Hr Rush ☐ Other:____

Sampler Information

Sampler(s): H Amaro
Signature: H Amaro
Date: 3/31/15

Additional Instructions to Laboratory: * Resampled @ 12:59 YSE

☐ Check if Project Analyte List is Attached

Preferred VOC units (please choose one):
☐ µg/L ☒ µg/m³ ☐ ppbv ☐ ppmv

	SAMPLE NAME	FIELD POINT NAME (if applicable)	DATE mm/dd/yy	TIME 24hr clock	SAMPLE TYPE Indoor Air (IA), Ambient Air (AA), Subslab (SS), Soil Vapor (SV)	CONTAINER SIZE & TYPE 400mL/1L/6L Summa or Tedlar or Tube	CONTAINER ID (###)	Lab use only: Receipt Vac	VOCs Standard Full List ☐ 8260SV ☒ TO-15	VOCs Short List / Project List ☐ 8260SV ☐ TO-15	Oxygenates ☐ 8260SV ☒ TO-15	Naphthalene ☐ 8260SV ☒ TO-15 ☐ TO-17m	TPHv as Gas ☐ 8260SVm ☒ TO-15m	TPHv as Diesel (sorbent tube) ☐ TO-17m	Aromatic/Aliphatic Fractions ☐ 8260SVm ☐ TO-15m	Leak Check Compound ☒ DFA ☐ IPA ☐ He	Methane by EPA 8015m	Fixed Gases by ASTM D1945 ☐ CO2 ☐ O2 ☐ N2			
1	SG1-15', 1PV		3/31/15	10:59	Vapor	glass	21		X		X	X	X			X					
2	SG1-15', 3PV			11:27		syringe	192		X		X	X	X			X					
3	SG1-15', 10PV *			11:54			98		X		X	X	X			X					
4	SG1-5'			13:27			98		X		X	X	X			X					
5	SG2-5'			13:52			21		X		X	X	X			X					
6	SG2-15'			14:15			153		X		X	X	X			X					
7	SG2-15' Rep			14:38			98		X		X	X	X			X					
8																					
9																					
10																					

Approved/Relinquished by:	Company: TRC	Date: 3/31/15	Time: 15:45	Received by: H Amaro	Company: H&P	Date: 3/31/15	Time: 15:45
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Approved/Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

*Approval constitutes as authorization to proceed with analysis and acceptance of conditions on back

Rev 08/18/2014

H&P Mobile Geochemistry Inc.

FMS004
Revision: 2
Revised: 12/4/14
Effective: 1/1/15
Page 1 of 1

Log Sheet: Soil Vapor Sampling with Syringe

H&P Project #: TRC033115-A2 Date: 3/31/15
Site Address: 3751 S. Harvard Blvd Page: 1 of 1
Consultant: TRC Solutions H&P Rep(s): H. Amaro
Consultant Rep(s): J. Gonzales K. Schindler
Reviewed: DB
Scanned:

Purge Volume Calculation						
PVT Probe ID, if applicable:	SG1-15'					
Tubing:	Length: 17	Diameter: 1/8	1 Volume:	16		
Sand Pack:	Height: 6	Diameter: 2.25	1 Volume:	156		
Dry Bentonite:	Height: 6	Diameter: 2.25	1 Volume:	195		
PVT Increments:	1 PV = 368	3 PV= 1103	10 PV = 3678			
PV Amount Selected:	1PV	Selected by: J. Gonzales				

Sample Volume
☒ 50cc Glass Syringe ☐ 100cc Glass Syringe ☐ Other_____

Leak Check Compound
☒ 1,1-DFA ☐ 1,1,1,2-TFA ☐ IPA ☐ Other_____

A cloth saturated with LCC is placed around tubing connections and at the probe seal. This is done prior to every soil vapor sample collected unless otherwise noted in the field notes below.

	Sample Information				Probe Specs							Collection Information				
	Point ID	Syringe ID	Date	Sample Time	Probe Depth (ft)	Tubing Length (ft)	Tubing Dia (in.)	Sand Pack Ht (in.)	Sand Pack Dia (in.)	Dry Bent. Ht (in.)	Dry Bent. Dia (in.)	Purge Vol (mL)	Shut-in Test (✓=Pass)	Flow Rate (mL/min)	Probe Vacuum ("Hg)	Field Notes
1	SG1-15', 1PV	21	3/31	10:59	15	17	1/8	6	2.25	6	2.25	368	✓	<200	Ø	
2	SG1-15', 3PV	192		11:27	15	17	1/8	6	225	6	2.25	1103	✓	<200	Ø	
3	SG1-15', 10PV	98		11:54	15	17	1/8	6	2.25	6	2.25	3678	✓	<200	Ø	
4	SG1-15', 10PV R	153		12:19	15	17	1/8	6	2.25	6	2.25	3728	✓	<200	Ø	Resample
5	SG1-15', 10PV R	21		12:59	15	17	1/8	6	2.25	6	2.25	3778	✓	<200	Ø	Resample.
6	SG1-5'	98		13:27	5	7	1/8	6	2.25	6	2.25	358	✓	<200	Ø	
7	SG2-5'	21		13:52	5	7	1/8	6	2.25	6	2.25	358	✓	<200	Ø	
8	SG2-15'	153		14:15	15	17	1/8	6	225	6	2.25	368	✓	<200	Ø	
9	SG2-15' Rep	98		14:38	15	17	1/8	6	225	6	2.25	418	✓	<200	Ø	
10																
11																
12			↓													

Site Notes (e.g. weather, visitors, scope deviations, health & safety issues, etc.):

Sample Analysis Time for S Harvard Boulevard Project
(TRC033115-A2)

Sample Name	Analysis Date/Time
SG1-15', 1PV	March 31, 2015 / 11:11
SG1-15', 3PV	March 31, 2015 / 11:35
SG1-15', 10PV	March 31, 2015 / 13:05 (was resampled at 12:59)
SG1-5'	March 31, 2015 / 13:40
SG2-5'	March 31, 2015 / 14:02
SG2-15'	March 31, 2015 / 14:25
SG2-15' Rep	March 31, 2015 / 14:47

April 07, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501131

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on March 30, 2015 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,

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

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
A1-0.5	1501131-01	Soil	3/28/15 9:30	3/30/15 12:30
B1-0.5	1501131-07	Soil	3/28/15 10:25	3/30/15 12:30
B2-0.5	1501131-13	Soil	3/28/15 10:45	3/30/15 12:30
B3-0.5	1501131-19	Soil	3/28/15 11:07	3/30/15 12:30
B3-1	1501131-20	Soil	3/28/15 11:07	3/30/15 12:30
B4-0.5	1501131-25	Soil	3/28/15 11:22	3/30/15 12:30
B5-0.5	1501131-31	Soil	3/28/15 11:52	3/30/15 12:30
B6-0.5	1501131-37	Soil	3/28/15 12:07	3/30/15 12:30
B7-0.5	1501131-43	Soil	3/28/15 12:20	3/30/15 12:30
C1-0.5	1501131-49	Soil	3/28/15 12:30	3/30/15 12:30
C2-0.5	1501131-55	Soil	3/28/15 13:42	3/30/15 12:30
C3-0.5	1501131-61	Soil	3/28/15 13:52	3/30/15 12:30
C4-0.5	1501131-67	Soil	3/28/15 14:02	3/30/15 12:30
C5-0.5	1501131-73	Soil	3/28/15 14:14	3/30/15 12:30
C6-0.5	1501131-79	Soil	3/28/15 14:30	3/30/15 12:30
C7-0.5	1501131-85	Soil	3/28/15 14:50	3/30/15 12:30
A2-0.5	1501131-91	Soil	3/28/15 9:50	3/30/15 12:30
A2-1	1501131-92	Soil	3/28/15 9:50	3/30/15 12:30
D1-0.5	1501131-97	Soil	3/28/15 15:10	3/30/15 12:30
D2-0.5	1501131-AD	Soil	3/28/15 15:26	3/30/15 12:30
D3-0.5	1501131-AJ	Soil	3/28/15 15:42	3/30/15 12:30
D4-0.5	1501131-AP	Soil	3/28/15 16:00	3/30/15 12:30
EQ Blank	1501131-AV	Water	3/28/15 16:46	3/30/15 12:30

CASE NARRATIVE

The samples for EPA 6020 analysis were subcontracted to AETL with DOHS Cert.#1541.

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID B1-0.5
Lab ID: 1501131-07

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**51**	1.0	1	B5D0006	04/01/2015	04/01/15 11:44	

Organochlorine Pesticides by EPA 8081

Analyst: CL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
4,4´-DDE [2C]	**2.8**	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
4,4´-DDT [2C]	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Aldrin	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
alpha-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
alpha-Chlordane	**2.0**	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
beta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Chlordane	**20**	8.5	1	B5C0810	03/31/2015	04/01/15 09:33	
delta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Dieldrin [2C]	**5.6**	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Endosulfan I	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Endosulfan II	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Endosulfan sulfate	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Endrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Endrin aldehyde	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Endrin ketone	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:33	
gamma-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
gamma-Chlordane [2C]	**2.2**	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Heptachlor	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Heptachlor epoxide	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Methoxychlor	ND	5.0	1	B5C0810	03/31/2015	04/01/15 09:33	
Toxaphene	ND	50	1	B5C0810	03/31/2015	04/01/15 09:33	
Surrogate: Decachlorobiphenyl	*67.9 %*	*16 - 137*		B5C0810	03/31/2015	*04/01/15 09:33*	
Surrogate: Tetrachloro-m-xylene	*60.8 %*	*16 - 105*		B5C0810	03/31/2015	*04/01/15 09:33*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID B5-0.5

Lab ID: 1501131-31

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**44**	1.0	1	B5D0006	04/01/2015	04/01/15 11:50	

Organochlorine Pesticides by EPA 8081

Analyst: CL

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
4,4´-DDE [2C]	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
4,4´-DDT	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Aldrin	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
alpha-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
alpha-Chlordane	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
beta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Chlordane [2C]	ND	8.5	1	B5C0810	03/31/2015	04/01/15 09:43	
delta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Dieldrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Endosulfan I	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Endosulfan II	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Endosulfan sulfate	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Endrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Endrin aldehyde	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Endrin ketone	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:43	
gamma-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
gamma-Chlordane [2C]	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Heptachlor	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Heptachlor epoxide	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Methoxychlor	ND	5.0	1	B5C0810	03/31/2015	04/01/15 09:43	
Toxaphene	ND	50	1	B5C0810	03/31/2015	04/01/15 09:43	
Surrogate: Decachlorobiphenyl	*68.5 %*	*16 - 137*		B5C0810	03/31/2015	*04/01/15 09:43*	
Surrogate: Tetrachloro-m-xylene	*64.2 %*	*16 - 105*		B5C0810	03/31/2015	*04/01/15 09:43*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID EQ Blank
Lab ID: 1501131-AV

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.0050	1	B5C0789	03/31/2015	04/01/15 09:33	

Organochlorine Pesticides by EPA 8081

Analyst: CL

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
4,4´-DDE	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
4,4´-DDT	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
Aldrin	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
alpha-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
alpha-Chlordane	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
beta-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
Chlordane	ND	0.25	1	B5C0790	03/31/2015	04/01/15 09:12	
delta-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
Dieldrin	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
Endosulfan I	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
Endosulfan II	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
Endosulfan sulfate	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
Endrin	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
Endrin aldehyde	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
Endrin ketone	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:12	
gamma-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
gamma-Chlordane	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
Heptachlor	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
Heptachlor epoxide	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:12	
Methoxychlor	ND	0.25	1	B5C0790	03/31/2015	04/01/15 09:12	
Toxaphene	ND	2.5	1	B5C0790	03/31/2015	04/01/15 09:12	
Surrogate: Decachlorobiphenyl	*65.4 %*	*20 - 138*		B5C0790	03/31/2015	*04/01/15 09:12*	
Surrogate: Tetrachloro-m-xylene	*74.3 %*	*11 - 133*		B5C0790	03/31/2015	*04/01/15 09:12*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0789 - EPA 3010A_W									
Blank (B5C0789-BLK1)				Prepared: 3/31/2015 Analyzed: 4/1/2015					
Lead	ND	0.0050			NR				
LCS (B5C0789-BS1)				Prepared: 3/31/2015 Analyzed: 4/1/2015					
Lead	1.00482	0.0050	1.00000		100	80 - 120			
Duplicate (B5C0789-DUP1)		**Source: 1501131-AV**		Prepared: 3/31/2015 Analyzed: 4/1/2015					
Lead	ND	0.0050		ND	NR			20	
Matrix Spike (B5C0789-MS1)		**Source: 1501131-AV**		Prepared: 3/31/2015 Analyzed: 4/1/2015					
Lead	2.49510	0.0050	2.50000	ND	99.8	85 - 114			
Matrix Spike Dup (B5C0789-MSD1)		**Source: 1501131-AV**		Prepared: 3/31/2015 Analyzed: 4/1/2015					
Lead	2.47544	0.0050	2.50000	ND	99.0	85 - 114	0.791	20	
Batch B5D0006 - EPA 3050B_S									
Blank (B5D0006-BLK1)				Prepared: 4/1/2015 Analyzed: 4/1/2015					
Lead	ND	1.0			NR				
LCS (B5D0006-BS1)				Prepared: 4/1/2015 Analyzed: 4/1/2015					
Lead	46.8033	1.0	50.0000		93.6	80 - 120			
Duplicate (B5D0006-DUP1)		**Source: 1501131-07**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
Lead	47.3250	1.0		50.8151	NR		7.11	20	
Matrix Spike (B5D0006-MS1)		**Source: 1501131-07**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
Lead	155.342	1.0	125.628	50.8151	83.2	35 - 129			
Matrix Spike Dup (B5D0006-MSD1)		**Source: 1501131-07**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
Lead	152.632	1.0	125.000	50.8151	81.5	35 - 129	1.76	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W									
Blank (B5C0790-BLK1)				Prepared: 3/31/2015 Analyzed: 3/31/2015					
4,4´-DDD	ND	0.05			NR				
4,4´-DDD [2C]	ND	0.05			NR				
4,4´-DDE	ND	0.05			NR				
4,4´-DDE [2C]	ND	0.05			NR				
4,4´-DDT	ND	0.05			NR				
4,4´-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
Blank (B5C0790-BLK1) - Continued				Prepared: 3/31/2015 Analyzed: 3/31/2015					
Methoxychlor [2C]	ND	0.25			NR				
Toxaphene	ND	2.5			NR				
Toxaphene [2C]	ND	2.5			NR				
Surrogate: Decachlorobiphenyl	*0.3596*		*0.500000*		*71.9*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3513*		*0.500000*		*70.3*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3458*		*0.500000*		*69.2*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3579*		*0.500000*		*71.6*	*11 - 133*			
LCS (B5C0790-BS1)				Prepared: 3/31/2015 Analyzed: 3/31/2015					
4,4´-DDD	0.410085	0.05	0.500000		82.0	56 - 107			
4,4´-DDD [2C]	0.439180	0.05	0.500000		87.8	56 - 107			
4,4´-DDE	0.447170	0.05	0.500000		89.4	62 - 107			
4,4´-DDE [2C]	0.473840	0.05	0.500000		94.8	62 - 107			
4,4´-DDT	0.408690	0.05	0.500000		81.7	41 - 110			
4,4´-DDT [2C]	0.410125	0.05	0.500000		82.0	41 - 110			
Aldrin	0.432705	0.02	0.500000		86.5	56 - 101			
Aldrin [2C]	0.456380	0.02	0.500000		91.3	56 - 101			
alpha-BHC	0.397830	0.02	0.500000		79.6	55 - 89			
alpha-BHC [2C]	0.421700	0.02	0.500000		84.3	55 - 89			
alpha-Chlordane	0.433750	0.02	0.500000		86.8	57 - 103			
alpha-Chlordane [2C]	0.457220	0.02	0.500000		91.4	57 - 103			
beta-BHC	0.388215	0.02	0.500000		77.6	58 - 95			
beta-BHC [2C]	0.402050	0.02	0.500000		80.4	58 - 95			
delta-BHC	0.418805	0.02	0.500000		83.8	12 - 80			L3
delta-BHC [2C]	0.447560	0.02	0.500000		89.5	12 - 80			L3
Dieldrin	0.425315	0.05	0.500000		85.1	60 - 102			
Dieldrin [2C]	0.433270	0.05	0.500000		86.7	60 - 102			
Endosulfan I	0.402360	0.02	0.500000		80.5	55 - 98			
Endosulfan I [2C]	0.417580	0.02	0.500000		83.5	55 - 98			
Endosulfan II	0.407965	0.05	0.500000		81.6	62 - 101			
Endosulfan II [2C]	0.415075	0.05	0.500000		83.0	62 - 101			
Endosulfan sulfate	0.493915	0.05	0.500000		98.8	54 - 95			L3
Endosulfan Sulfate [2C]	0.489020	0.05	0.500000		97.8	54 - 95			L3
Endrin	0.435850	0.05	0.500000		87.2	62 - 102			
Endrin [2C]	0.447950	0.05	0.500000		89.6	62 - 102			
Endrin aldehyde	0.396980	0.05	0.500000		79.4	62 - 104			
Endrin aldehyde [2C]	0.422390	0.05	0.500000		84.5	62 - 104			
Endrin ketone	0.379680	0.05	0.500000		75.9	61 - 102			
Endrin ketone [2C]	0.363610	0.05	0.500000		72.7	61 - 102			
gamma-BHC	0.412740	0.02	0.500000		82.5	60 - 94			
gamma-BHC [2C]	0.435285	0.02	0.500000		87.1	60 - 94			

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
LCS (B5C0790-BS1) - Continued				Prepared: 3/31/2015 Analyzed: 3/31/2015					
gamma-Chlordane	0.435485	0.02	0.500000		87.1	58 - 103			
gamma-Chlordane [2C]	0.454140	0.02	0.500000		90.8	58 - 103			
Heptachlor	0.436920	0.02	0.500000		87.4	65 - 103			
Heptachlor [2C]	0.453825	0.02	0.500000		90.8	65 - 103			
Heptachlor epoxide	0.435855	0.02	0.500000		87.2	59 - 102			
Heptachlor epoxide [2C]	0.449335	0.02	0.500000		89.9	59 - 102			
Methoxychlor	0.422445	0.25	0.500000		84.5	40 - 105			
Methoxychlor [2C]	0.386600	0.25	0.500000		77.3	40 - 105			
Surrogate: Decachlorobiphenyl	*0.3693*		*0.500000*		*73.9*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3659*		*0.500000*		*73.2*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3615*		*0.500000*		*72.3*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3769*		*0.500000*		*75.4*	*11 - 133*			
LCS Dup (B5C0790-BSD1)				Prepared: 3/31/2015 Analyzed: 3/31/2015					
4,4´-DDD	0.413785	0.05	0.500000		82.8	56 - 107	0.898	20	
4,4´-DDD [2C]	0.439070	0.05	0.500000		87.8	56 - 107	0.0250	20	
4,4´-DDE	0.450660	0.05	0.500000		90.1	62 - 107	0.777	20	
4,4´-DDE [2C]	0.475255	0.05	0.500000		95.1	62 - 107	0.298	20	
4,4´-DDT	0.412705	0.05	0.500000		82.5	41 - 110	0.978	20	
4,4´-DDT [2C]	0.409020	0.05	0.500000		81.8	41 - 110	0.270	20	
Aldrin	0.436360	0.02	0.500000		87.3	56 - 101	0.841	20	
Aldrin [2C]	0.459620	0.02	0.500000		91.9	56 - 101	0.707	20	
alpha-BHC	0.402610	0.02	0.500000		80.5	55 - 89	1.19	20	
alpha-BHC [2C]	0.425415	0.02	0.500000		85.1	55 - 89	0.877	20	
alpha-Chlordane	0.439150	0.02	0.500000		87.8	57 - 103	1.24	20	
alpha-Chlordane [2C]	0.459165	0.02	0.500000		91.8	57 - 103	0.424	20	
beta-BHC	0.390800	0.02	0.500000		78.2	58 - 95	0.664	20	
beta-BHC [2C]	0.403965	0.02	0.500000		80.8	58 - 95	0.475	20	
delta-BHC	0.420465	0.02	0.500000		84.1	12 - 80	0.396	20	L3
delta-BHC [2C]	0.449125	0.02	0.500000		89.8	12 - 80	0.349	20	L3
Dieldrin	0.429505	0.05	0.500000		85.9	60 - 102	0.980	20	
Dieldrin [2C]	0.434310	0.05	0.500000		86.9	60 - 102	0.240	20	
Endosulfan I	0.405560	0.02	0.500000		81.1	55 - 98	0.792	20	
Endosulfan I [2C]	0.419040	0.02	0.500000		83.8	55 - 98	0.349	20	
Endosulfan II	0.411735	0.05	0.500000		82.3	62 - 101	0.920	20	
Endosulfan II [2C]	0.416160	0.05	0.500000		83.2	62 - 101	0.261	20	
Endosulfan sulfate	0.494545	0.05	0.500000		98.9	54 - 95	0.127	20	L3
Endosulfan Sulfate [2C]	0.490335	0.05	0.500000		98.1	54 - 95	0.269	20	L3
Endrin	0.439830	0.05	0.500000		88.0	62 - 102	0.909	20	
Endrin [2C]	0.448730	0.05	0.500000		89.7	62 - 102	0.174	20	
Endrin aldehyde	0.399475	0.05	0.500000		79.9	62 - 104	0.627	20	

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
LCS Dup (B5C0790-BSD1) - Continued				Prepared: 3/31/2015 Analyzed: 3/31/2015					
Endrin aldehyde [2C]	0.423290	0.05	0.500000		84.7	62 - 104	0.213	20	
Endrin ketone	0.377535	0.05	0.500000		75.5	61 - 102	0.567	20	
Endrin ketone [2C]	0.362475	0.05	0.500000		72.5	61 - 102	0.313	20	
gamma-BHC	0.416255	0.02	0.500000		83.3	60 - 94	0.848	20	
gamma-BHC [2C]	0.438500	0.02	0.500000		87.7	60 - 94	0.736	20	
gamma-Chlordane	0.438985	0.02	0.500000		87.8	58 - 103	0.800	20	
gamma-Chlordane [2C]	0.455710	0.02	0.500000		91.1	58 - 103	0.345	20	
Heptachlor	0.440480	0.02	0.500000		88.1	65 - 103	0.811	20	
Heptachlor [2C]	0.456220	0.02	0.500000		91.2	65 - 103	0.526	20	
Heptachlor epoxide	0.438500	0.02	0.500000		87.7	59 - 102	0.605	20	
Heptachlor epoxide [2C]	0.451065	0.02	0.500000		90.2	59 - 102	0.384	20	
Methoxychlor	0.423255	0.25	0.500000		84.7	40 - 105	0.192	20	
Methoxychlor [2C]	0.397615	0.25	0.500000		79.5	40 - 105	2.81	20	
Surrogate: Decachlorobiphenyl	*0.3664*		*0.500000*		*73.3*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3631*		*0.500000*		*72.6*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3645*		*0.500000*		*72.9*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3800*		*0.500000*		*76.0*	*11 - 133*			
Batch B5C0810 - GCSEMI_PCB/PEST_S									
Blank (B5C0810-BLK1)				Prepared: 3/31/2015 Analyzed: 4/1/2015					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5C0810-BLK1) - Continued				Prepared: 3/31/2015 Analyzed: 4/1/2015					
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*11.98*		*16.6667*		*71.9*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.10*		*16.6667*		*72.6*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.19*		*16.6667*		*73.2*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.54*		*16.6667*		*75.2*	*16 - 105*			
LCS (B5C0810-BS1)				Prepared: 3/31/2015 Analyzed: 4/1/2015					
4,4´-DDD	14.4367	2.0	16.6667		86.6	58 - 100			
4,4´-DDD [2C]	15.1750	2.0	16.6667		91.0	58 - 100			
4,4´-DDE	15.7292	2.0	16.6667		94.4	65 - 99			
4,4´-DDE [2C]	16.5272	2.0	16.6667		99.2	65 - 99			L3
4,4´-DDT	14.3690	2.0	16.6667		86.2	39 - 116			
4,4´-DDT [2C]	13.8178	2.0	16.6667		82.9	39 - 116			
Aldrin	15.2937	1.0	16.6667		91.8	57 - 94			
Aldrin [2C]	16.0242	1.0	16.6667		96.1	57 - 94			L3
alpha-BHC	14.3508	1.0	16.6667		86.1	58 - 84			L3
alpha-BHC [2C]	14.8908	1.0	16.6667		89.3	58 - 84			L3
alpha-Chlordane	15.3215	1.0	16.6667		91.9	58 - 96			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5C0810-BS1) - Continued				Prepared: 3/31/2015 Analyzed: 4/1/2015					
alpha-Chlordane [2C]	16.0207	1.0	16.6667		96.1	58 - 96			L3
beta-BHC	13.7125	1.0	16.6667		82.3	58 - 87			
beta-BHC [2C]	14.1093	1.0	16.6667		84.7	58 - 87			
delta-BHC	14.7358	1.0	16.6667		88.4	18 - 75			L3
delta-BHC [2C]	15.6542	1.0	16.6667		93.9	18 - 75			L3
Dieldrin	14.9560	2.0	16.6667		89.7	62 - 94			
Dieldrin [2C]	15.1570	2.0	16.6667		90.9	62 - 94			
Endosulfan I	14.1130	1.0	16.6667		84.7	58 - 90			
Endosulfan I [2C]	14.6115	1.0	16.6667		87.7	58 - 90			
Endosulfan II	14.3870	2.0	16.6667		86.3	63 - 95			
Endosulfan II [2C]	14.5320	2.0	16.6667		87.2	63 - 95			
Endosulfan sulfate	17.2405	2.0	16.6667		103	59 - 89			L3
Endosulfan Sulfate [2C]	17.0087	2.0	16.6667		102	59 - 89			L3
Endrin	15.3262	2.0	16.6667		92.0	64 - 96			
Endrin [2C]	15.5358	2.0	16.6667		93.2	64 - 96			
Endrin aldehyde	14.0703	2.0	16.6667		84.4	65 - 95			
Endrin aldehyde [2C]	14.8257	2.0	16.6667		89.0	65 - 95			
Endrin ketone	13.3933	2.0	16.6667		80.4	59 - 101			
Endrin ketone [2C]	12.7722	2.0	16.6667		76.6	59 - 101			
gamma-BHC	14.6488	1.0	16.6667		87.9	63 - 89			
gamma-BHC [2C]	15.3302	1.0	16.6667		92.0	63 - 89			L3
gamma-Chlordane	15.3182	1.0	16.6667		91.9	61 - 95			
gamma-Chlordane [2C]	15.8643	1.0	16.6667		95.2	61 - 95			L3
Heptachlor	15.4165	1.0	16.6667		92.5	65 - 102			
Heptachlor [2C]	15.5125	1.0	16.6667		93.1	65 - 102			
Heptachlor epoxide	15.2918	1.0	16.6667		91.8	61 - 95			
Heptachlor epoxide [2C]	15.7425	1.0	16.6667		94.5	61 - 95			
Methoxychlor	14.7267	5.0	16.6667		88.4	29 - 128			
Methoxychlor [2C]	13.4463	5.0	16.6667		80.7	29 - 128			
Surrogate: Decachlorobiphenyl	*13.39*		*16.6667*		*80.4*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*13.38*		*16.6667*		*80.3*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*13.10*		*16.6667*		*78.6*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.63*		*16.6667*		*81.8*	*16 - 105*			
Matrix Spike (B5C0810-MS1)		**Source: 1501133-61**		Prepared: 3/31/2015 Analyzed: 4/1/2015					
4,4´-DDD	11.1240	2.0	16.6667	ND	66.7	27 - 123			
4,4´-DDD [2C]	11.7272	2.0	16.6667	ND	70.4	27 - 123			
4,4´-DDE	13.8365	2.0	16.6667	ND	83.0	28 - 126			
4,4´-DDE [2C]	14.4607	2.0	16.6667	ND	86.8	28 - 126			
4,4´-DDT	12.7263	2.0	16.6667	ND	76.4	12 - 149			
4,4´-DDT [2C]	12.1128	2.0	16.6667	ND	72.7	12 - 149			

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5C0810-MS1) - Continued		**Source: 1501133-61**		Prepared: 3/31/2015 Analyzed: 4/1/2015					
Aldrin	13.2782	1.0	16.6667	ND	79.7	29 - 116			
Aldrin [2C]	13.6858	1.0	16.6667	ND	82.1	29 - 116			
alpha-BHC	10.6412	1.0	16.6667	ND	63.8	27 - 104			
alpha-BHC [2C]	11.8533	1.0	16.6667	ND	71.1	27 - 104			
alpha-Chlordane	12.5345	1.0	16.6667	ND	75.2	14 - 130			
alpha-Chlordane [2C]	13.0277	1.0	16.6667	ND	78.2	14 - 130			
beta-BHC	9.77167	1.0	16.6667	ND	58.6	20 - 115			
beta-BHC [2C]	9.79500	1.0	16.6667	ND	58.8	20 - 115			
delta-BHC	9.16850	1.0	16.6667	ND	55.0	8 - 78			
delta-BHC [2C]	9.44383	1.0	16.6667	ND	56.7	8 - 78			
Dieldrin	10.9173	2.0	16.6667	ND	65.5	20 - 134			
Dieldrin [2C]	10.9040	2.0	16.6667	ND	65.4	20 - 134			
Endosulfan I	11.2720	1.0	16.6667	ND	67.6	27 - 114			
Endosulfan I [2C]	11.5520	1.0	16.6667	ND	69.3	27 - 114			
Endosulfan II	8.15133	2.0	16.6667	ND	48.9	16 - 125			
Endosulfan II [2C]	8.17717	2.0	16.6667	ND	49.1	16 - 125			
Endosulfan sulfate	6.59117	2.0	16.6667	ND	39.5	1 - 126			
Endosulfan Sulfate [2C]	6.43433	2.0	16.6667	ND	38.6	1 - 126			
Endrin	11.5910	2.0	16.6667	ND	69.5	33 - 122			
Endrin [2C]	11.5783	2.0	16.6667	ND	69.5	33 - 122			
Endrin aldehyde	5.45433	2.0	16.6667	ND	32.7	0 - 137			
Endrin aldehyde [2C]	4.82883	2.0	16.6667	ND	29.0	0 - 137			
Endrin ketone	6.04033	2.0	16.6667	ND	36.2	10 - 126			
Endrin ketone [2C]	5.64067	2.0	16.6667	ND	33.8	10 - 126			
gamma-BHC	10.4682	1.0	16.6667	ND	62.8	30 - 111			
gamma-BHC [2C]	10.9663	1.0	16.6667	ND	65.8	30 - 111			
gamma-Chlordane	12.0672	1.0	16.6667	ND	72.4	16 - 130			
gamma-Chlordane [2C]	12.4515	1.0	16.6667	ND	74.7	16 - 130			
Heptachlor	13.4637	1.0	16.6667	ND	80.8	34 - 127			
Heptachlor [2C]	13.4773	1.0	16.6667	ND	80.9	34 - 127			
Heptachlor epoxide	11.8413	1.0	16.6667	ND	71.0	19 - 130			
Heptachlor epoxide [2C]	12.0023	1.0	16.6667	ND	72.0	19 - 130			
Methoxychlor	9.16883	5.0	16.6667	ND	55.0	16 - 153			
Methoxychlor [2C]	7.94233	5.0	16.6667	ND	47.7	16 - 153			
Surrogate: Decachlorobiphenyl	*12.07*		*16.6667*		*72.4*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.40*		*16.6667*		*68.4*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.61*		*16.6667*		*63.6*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.29*		*16.6667*		*67.7*	*16 - 105*			
Matrix Spike Dup (B5C0810-MSD1)		**Source: 1501133-61**		Prepared: 3/31/2015 Analyzed: 4/1/2015					
4,4´-DDD	10.5957	2.0	16.6667	ND	63.6	27 - 123	4.86	20	

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5C0810-MSD1) - Continued		**Source: 1501133-61**		Prepared: 3/31/2015 Analyzed: 4/1/2015					
4,4´-DDD [2C]	11.0077	2.0	16.6667	ND	66.0	27 - 123	6.33	20	
4,4´-DDE	12.6127	2.0	16.6667	ND	75.7	28 - 126	9.25	20	
4,4´-DDE [2C]	13.0807	2.0	16.6667	ND	78.5	28 - 126	10.0	20	
4,4´-DDT	11.7937	2.0	16.6667	ND	70.8	12 - 149	7.61	20	
4,4´-DDT [2C]	11.0800	2.0	16.6667	ND	66.5	12 - 149	8.91	20	
Aldrin	12.3207	1.0	16.6667	ND	73.9	29 - 116	7.48	20	
Aldrin [2C]	12.4938	1.0	16.6667	ND	75.0	29 - 116	9.11	20	
alpha-BHC	10.9333	1.0	16.6667	ND	65.6	27 - 104	2.71	20	
alpha-BHC [2C]	11.0818	1.0	16.6667	ND	66.5	27 - 104	6.73	20	
alpha-Chlordane	11.7378	1.0	16.6667	ND	70.4	14 - 130	6.56	20	
alpha-Chlordane [2C]	12.1398	1.0	16.6667	ND	72.8	14 - 130	7.06	20	
beta-BHC	9.84000	1.0	16.6667	ND	59.0	20 - 115	0.697	20	
beta-BHC [2C]	9.82050	1.0	16.6667	ND	58.9	20 - 115	0.260	20	
delta-BHC	9.54700	1.0	16.6667	ND	57.3	8 - 78	4.04	20	
delta-BHC [2C]	9.81250	1.0	16.6667	ND	58.9	8 - 78	3.83	20	
Dieldrin	10.7672	2.0	16.6667	ND	64.6	20 - 134	1.38	20	
Dieldrin [2C]	10.7835	2.0	16.6667	ND	64.7	20 - 134	1.11	20	
Endosulfan I	10.9142	1.0	16.6667	ND	65.5	27 - 114	3.23	20	
Endosulfan I [2C]	11.0833	1.0	16.6667	ND	66.5	27 - 114	4.14	20	
Endosulfan II	8.62533	2.0	16.6667	ND	51.8	16 - 125	5.65	20	
Endosulfan II [2C]	8.49133	2.0	16.6667	ND	50.9	16 - 125	3.77	20	
Endosulfan sulfate	7.32417	2.0	16.6667	ND	43.9	1 - 126	10.5	20	
Endosulfan Sulfate [2C]	7.04050	2.0	16.6667	ND	42.2	1 - 126	9.00	20	
Endrin	11.3267	2.0	16.6667	ND	68.0	33 - 122	2.31	20	
Endrin [2C]	11.4093	2.0	16.6667	ND	68.5	33 - 122	1.47	20	
Endrin aldehyde	6.22033	2.0	16.6667	ND	37.3	0 - 137	13.1	20	
Endrin aldehyde [2C]	5.49617	2.0	16.6667	ND	33.0	0 - 137	12.9	20	
Endrin ketone	6.51883	2.0	16.6667	ND	39.1	10 - 126	7.62	20	
Endrin ketone [2C]	6.10417	2.0	16.6667	ND	36.6	10 - 126	7.89	20	
gamma-BHC	10.3027	1.0	16.6667	ND	61.8	30 - 111	1.59	20	
gamma-BHC [2C]	10.6850	1.0	16.6667	ND	64.1	30 - 111	2.60	20	
gamma-Chlordane	11.4172	1.0	16.6667	ND	68.5	16 - 130	5.54	20	
gamma-Chlordane [2C]	11.8100	1.0	16.6667	ND	70.9	16 - 130	5.29	20	
Heptachlor	12.5138	1.0	16.6667	ND	75.1	34 - 127	7.31	20	
Heptachlor [2C]	12.4445	1.0	16.6667	ND	74.7	34 - 127	7.97	20	
Heptachlor epoxide	11.6035	1.0	16.6667	ND	69.6	19 - 130	2.03	20	
Heptachlor epoxide [2C]	11.6433	1.0	16.6667	ND	69.9	19 - 130	3.04	20	
Methoxychlor	9.41567	5.0	16.6667	ND	56.5	16 - 153	2.66	20	
Methoxychlor [2C]	7.99517	5.0	16.6667	ND	48.0	16 - 153	0.663	20	
Surrogate: Decachlorobiphenyl	*10.92*		*16.6667*		*65.5*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*10.67*		*16.6667*		*64.0*	*16 - 137*			

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5C0810-MSD1) - Continued			**Source: 1501133-61**		Prepared: 3/31/2015 Analyzed: 4/1/2015				
Surrogate: Tetrachloro-m-xylene	*10.05*		*16.6667*		*60.3*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.49*		*16.6667*		*62.9*	*16 - 105*			

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Notes and Definitions

L3	Laboratory control sample outside in-house established limits but within method criteria.
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)
TX1	TX-NELAP (TCEQ)

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.

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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages	**22**
Date Received	**03/31/2015**
Date Reported	**04/01/2015**

Job Number	Order Date	Client
76453	03/31/2015	ATL

Project ID: 1501131
Project Name: PO# SC09472

Enclosed please find results of analyses of 1 water and 20 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Project ID: 1501131 Date Received 03/31/2015 Date Reported 04/02/2015

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76453	03/31/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 21 samples with the following specification on 03/31/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76453.21	1501131-AV	03/28/2015	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ AS	04/01/2015	2	Rush	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76453.01	1501131-01	03/28/2015	Soil	1
76453.02	1501131-07	03/28/2015	Soil	1
76453.03	1501131-13	03/28/2015	Soil	1
76453.04	1501131-19	03/28/2015	Soil	1
76453.05	1501131-25	03/28/2015	Soil	1
76453.06	1501131-31	03/28/2015	Soil	1
76453.07	1501131-37	03/28/2015	Soil	1
76453.08	1501131-43	03/28/2015	Soil	1
76453.09	1501131-49	03/28/2015	Soil	1
76453.10	1501131-55	03/28/2015	Soil	1
76453.11	1501131-61	03/28/2015	Soil	1
76453.12	1501131-67	03/28/2015	Soil	1
76453.13	1501131-73	03/28/2015	Soil	1
76453.14	1501131-79	03/28/2015	Soil	1
76453.15	1501131-85	03/28/2015	Soil	1
76453.16	1501131-91	03/28/2015	Soil	1
76453.17	1501131-97	03/28/2015	Soil	1
76453.18	1501131-AD	03/28/2015	Soil	1
76453.19	1501131-AJ	03/28/2015	Soil	1
76453.20	1501131-AP	03/28/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/01/2015	2	Rush	mg/Kg

Continued

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Project ID: 1501131 Date Received 03/31/2015 Date Reported 04/02/2015

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76453	03/31/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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ANALYTICAL RESULTS

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Attn: Rachelle Arada
Page: **2**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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ANALYTICAL RESULTS

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Page: **3**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			**76453.01**				
Client Sample I.D.			1501131-01				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	5.88				

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Page: **4**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			76453.02	76453.03			
Client Sample I.D.			1501131-07	1501131-13			
Date Sampled			03/28/2015	03/28/2015			
Date Prepared			03/31/2015	03/31/2015			
Preparation Method			3050B	3050B			
Date Analyzed			04/01/2015	04/01/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			5	5			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.25	0.50	3.33	4.14			

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ANALYTICAL RESULTS

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Page: **5**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			**76453.04**				
Client Sample I.D.			1501131-19				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			20				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	1.00	2.00	20.2				

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ANALYTICAL RESULTS

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Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			76453.05	76453.06			
Client Sample I.D.			1501131-25	1501131-31			
Date Sampled			03/28/2015	03/28/2015			
Date Prepared			03/31/2015	03/31/2015			
Preparation Method			3050B	3050B			
Date Analyzed			04/01/2015	04/01/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	2.62	2.47			

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ANALYTICAL RESULTS

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Page: **7**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			**76453.07**				
Client Sample I.D.			1501131-37				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	7.20				

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ANALYTICAL RESULTS

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Page: 8

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			76453.08				
Client Sample I.D.			1501131-43				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.23				

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ANALYTICAL RESULTS

Ordered By

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Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 9

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			**76453.09**				
Client Sample I.D.			1501131-49				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.25	0.50	3.38				

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Page: **11**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			76453.10	76453.11			
Client Sample I.D.			1501131-55	1501131-61			
Date Sampled			03/28/2015	03/28/2015			
Date Prepared			03/31/2015	03/31/2015			
Preparation Method			3050B	3050B			
Date Analyzed			04/01/2015	04/01/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	2.54	2.45			

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Page: **12**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			**76453.12**				
Client Sample I.D.			1501131-67				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.25	0.50	3.62				

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Page: **13**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			76453.13	76453.14	76453.15		
Client Sample I.D.			1501131-73	1501131-79	1501131-85		
Date Sampled			03/28/2015	03/28/2015	03/28/2015		
Date Prepared			03/31/2015	03/31/2015	03/31/2015		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			04/01/2015	04/01/2015	04/01/2015		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	2.57	2.87	1.81		

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Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			**76453.16**				
Client Sample I.D.			1501131-91				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	13.7				

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Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			**76453.17**				
Client Sample I.D.			1501131-97				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.25	0.50	8.20				

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Page: **16**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			**76453.18**				
Client Sample I.D.			1501131-AD				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.85				

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Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			**76453.19**				
Client Sample I.D.			1501131-AJ				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.25	0.50	3.36				

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Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4

Our Lab I.D.			**76453.20**				
Client Sample I.D.			1501131-AP				
Date Sampled			03/28/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.26				

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Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0331151C1

Our Lab I.D.			Method Blank	**76453.21**			
Client Sample I.D.				1501131-AV			
Date Sampled				03/28/2015			
Date Prepared			03/31/2015	03/31/2015			
Preparation Method			3005A	3005A			
Date Analyzed			04/01/2015	04/01/2015			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.0025	0.0250	ND	ND			

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QUALITY CONTROL RESULTS

Ordered By

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Page: **20**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0331151C1; Dup or Spiked Sample: 76453.23; LCS: Clean Water; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	0.00	0.0100	0.0100	114	0.0100	0.0100	121	5.96	75-125	<15

QC Batch No: 0331151C1; Dup or Spiked Sample: 76453.23; LCS: Clean Water; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	0.0100	0.0100	102	0.0100	0.0100	103	<1	75-125	<15	

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QUALITY CONTROL RESULTS

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Page: **21**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3; Dup or Spiked Sample: 76454.16; LCS: Clean Sand; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.30	1.00	3.18	88.0	1.00	3.06	76.0	14.6	75-125	<15

QC Batch No: 0331151C3; Dup or Spiked Sample: 76454.16; LCS: Clean Sand; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.940	94.0	1.00	1.01	101	7.2	75-125	<15	

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Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76453	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C4; Dup or Spiked Sample: 76453.09; LCS: Clean Sand; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.04	1.00	3.67 M	63.0	1.00	3.73 M	69.0	9.1	75-125	<15

QC Batch No: 0331151C4; Dup or Spiked Sample: 76453.09; LCS: Clean Sand; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.950	95.0	1.00	0.980	98.0	3.1	75-125	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

76453

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

Work Order: 1501131

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09472-RUSH TAT (RA)

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501131-01 / A1-0.5		Soil 76453.01	**03/28/15 09:30**	Please report Arsenic
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 09:30		
ATL Lab#: 1501131-07 / B1-0.5		Soil	**03/28/15 10:25**	76453.02
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 10:25		
ATL Lab#: 1501131-13 / B2-0.5		Soil	**03/28/15 10:45**	76453.03
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 10:45		
ATL Lab#: 1501131-19 / B3-0.5		Soil	**03/28/15 11:07**	76453.04
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 11:07		
ATL Lab#: 1501131-25 / B4-0.5		Soil	**03/28/15 11:22**	76453.05
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 11:22		

Released By	3/31/15 1221 Date	Received By	3/31/15 1221 Date
Released By	3/31/15 Date	Received By	03/31/15 1500 Date

ADVANCED TECHNOLOGY LABORATORIES

76453

SUBCONTRACT ORDER

Work Order: 1501131

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501131-31 / B5-0.5		**Soil**	**03/28/15 11:52**	76453.06
6020_SUB	**04/01/15 15:00**	09/24/15 11:52		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-37 / B6-0.5		**Soil**	**03/28/15 12:07**	76453.07
6020_SUB	**04/01/15 15:00**	09/24/15 12:07		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-43 / B7-0.5		**Soil**	**03/28/15 12:20**	76453.08
6020_SUB	**04/01/15 15:00**	09/24/15 12:20		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-49 / C1-0.5		**Soil**	**03/28/15 12:30**	76453.09
6020_SUB	**04/01/15 15:00**	09/24/15 12:30		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-55 / C2-0.5		**Soil**	**03/28/15 13:42**	76453.10
6020_SUB	**04/01/15 15:00**	09/24/15 13:42		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-61 / C3-0.5		**Soil**	**03/28/15 13:52**	76453.11
6020_SUB	**04/01/15 15:00**	09/24/15 13:52		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-67 / C4-0.5		**Soil**	**03/28/15 14:02**	76453.12
6020_SUB	**04/01/15 15:00**	09/24/15 14:02		
[Individual Metals by ICPMS]				

Released By	3/31/15 1221 Date	Sargis-P Received By	3/31/15 1221 Date
Sargis-P Released By	3/31/15 Date	Jean Lande Received By	03/31/15 1500 Date

ADVANCED TECHNOLOGY LABORATORIES

76453

SUBCONTRACT ORDER

Work Order: 1501131

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501131-73 / C5-0.5		**Soil**	**03/28/15 14:14**	76453.13
6020_SUB	**04/01/15 15:00**	09/24/15 14:14		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-79 / C6-0.5		**Soil**	**03/28/15 14:30**	76453.14
6020_SUB	**04/01/15 15:00**	09/24/15 14:30		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-85 / C7-0.5		**Soil**	**03/28/15 14:50**	76453.15
6020_SUB	**04/01/15 15:00**	09/24/15 14:50		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-91 / A2-0.5		**Soil**	**03/28/15 09:50**	76453.16
6020_SUB	**04/01/15 15:00**	09/24/15 09:50		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-97 / D1-0.5		**Soil**	**03/28/15 15:10**	76453.17
6020_SUB	**04/01/15 15:00**	09/24/15 15:10		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-AD / D2-0.5		**Soil**	**03/28/15 15:26**	76453.18
6020_SUB	**04/01/15 15:00**	09/24/15 15:26		
[Individual Metals by ICPMS]				
ATL Lab#: 1501131-AJ / D3-0.5		**Soil**	**03/28/15 15:42**	76453.19
6020_SUB	**04/01/15 15:00**	09/24/15 15:42		
[Individual Metals by ICPMS]				

Released By	3/31/15 1221 Date	Sargis P Received By	3/31/15 1221 Date
Sargis P Released By	3/31/15 Date	Received By	03/31/15 1500 Date

ADVANCED TECHNOLOGY LABORATORIES

76453

SUBCONTRACT ORDER

Work Order: 1501131

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501131-AP / D4-0.5		**Soil**	**03/28/15 16:00**	76453.20
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 16:00		
ATL Lab#: 1501131-AV / EQ BLANK		**Water**	**03/28/15 16:46**	76453.21
6020_SUB [Individual Metals by ICPMS] Poly Unpres - 500mL	**04/01/15 15:00**	09/24/15 16:46		

Released By	Date	Received By	Date
	3/31/15 1221		3/31/15 1221
	3/31/15		03/31/15 1500

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

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 3
Date Received 04/02/2015
Date Reported 04/03/2015

Job Number	Order Date	Client
76490	04/02/2015	ATL

Project ID: 1501131
Project Name: PO# SC09472

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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Ordered By

Advanced Technology Laboratories **3275 Walnut Avenue** **Signal Hill, CA 90755-5225**

Project ID: 1501131 **Date Received 04/02/2015** **Date Reported 04/03/2015**

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76490	04/02/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 04/02/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76490.01	1501131-20	03/28/2015	Soil	1
76490.02	1501131-92	03/28/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	04/03/2015	2	Rush	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76490	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			04/03/2015				
Preparation Method			3050B				
Date Analyzed			04/03/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

QUALITY CONTROL REPORT

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.11	5.00	8.91	116	5.00	9.11	120	3.39	80-120	<15

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.868	86.8	1.00	0.945	94.5	8.49	80-120	<15	

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 3

Project ID: 1501131
Project Name: PO# SC09472

AETL Job Number	Submitted	Client
76490	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C2

Our Lab I.D.			76490.01	76490.02			
Client Sample I.D.			1501131-20	1501131-92			
Date Sampled			03/28/2015	03/28/2015			
Date Prepared			04/03/2015	04/03/2015			
Preparation Method			3050B	3050B			
Date Analyzed			04/03/2015	04/03/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			5	5			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.25	0.50	4.08	4.81			

QUALITY CONTROL REPORT

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.11	5.00	8.91	116	5.00	9.11	120	3.39	80-120	<15

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.868	86.8	1.00	0.945	94.5	8.49	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76490

SUBCONTRACT ORDER

Work Order: 1501131

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09472-RUSH TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
[redacted]				
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 09:30		
[redacted]				
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 10:25		
[redacted]				
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 10:45		
[redacted]				
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 11:07		
ATL Lab#: 1501131-20 / B3-1		**Soil**	**03/28/15 11:07**	**Report Arsenic only** 76490.01
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**04/03/15 12:00**	09/24/15 11:07		

Released By	Date	Received By	Date
	4/2/15 1401	Sangip	4/2/15 1401
Sangip	4/2/15	Leon Lande	04/02/15 1615
Released By	Date	Received By	Date

ADVANCED TECHNOLOGY LABORATORIES

76490

SUBCONTRACT ORDER

Work Order: 1501131

Analysis	Due	Expires	Sampled	Comments
[redacted] / C4-0.5		Soil	03/28/15 14:02	
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 14:02		
[redacted] / C5-0.5		Soil		
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 14:14		
[redacted] / C6-0.5		Soil	03/28/15 14:30	
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 14:30		
A[redacted] / C7-0.5		Soil		
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 14:50		
[redacted] / A2-1		Soil	03/28/15 09:50	
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 09:50		
ATL Lab#: 1501131-92 / A2-1		**Soil**	**03/28/15 09:50**	76490.02
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**04/03/15 12:00**	09/24/15 09:50		
[redacted] / D1-0.5		Soil	03/28/15 15:10	
6020_SUB [Individual Metals by ICPMS]	**04/01/15 15:00**	09/24/15 15:10		

Released By	Date	Received By	Date
[signature]	4/2/15 1402	Sargis P	4/2/15 1402
Sargis P	4/2/15	Dean Clarke	04/02/15 1615

Released By / Date / Received By / Date

2 of 2

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715		
Method of Transport		Sample Conditions Upon Receipt				
		Condition	Y	N	Condition	Y	N
Client / FedEx / GSO / Other:	ATL / OnTrac	1. CHILLED			5. # OF SAMPLES MATCH COC		
		2. HEADSPACE (V0A)			6. PRESERVED		
		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
		4. SEALED					

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 3250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Ste 3250
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments: TAT 2

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	TAT	#	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	15011271 - 1	A1-0.5	3/28/15	9:30	X	X					2	1				Routine	
2	2	A1-1			X	X	X				2	1					HOLD
3	3	A1-1.5			X	X	X				2	1					
4	4	A1-2			X	X	X				2	1					
5	5	A1-2.5			X	X	X				2	1					
6	6	A1-3		↓	X	X	X				2	1					↓
7	7	B1-0.5		10:25	X	X	X				2	1					
8	8	B1-1			X	X	X				2	1					HOLD
9	9	B1-1.5			X	X	X				2	1					
10	10	B1-2	↓	↓	X	X	X				2	1					↓

Encircle Sample Matrix: Soil | Select Solid Matrix | Select Water Matrix | Select Wastewater Matrix | Select Aqueous Matrix | Enter Custom Matrix

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister. Material: 1=Glass; 2=Plastic; 3=Metal. Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine, Caltrans, Legal, RWQCB Level IV

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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			Edward Rodriguez	3-30-15	1230
Edward Rodriguez	3-30-15	1310	[signature]	3/30/15	1310

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: / Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: / State: / Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis / Encircle Sample Matrix

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TAT	Container #	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	15011391-11	B1-2.5	3/28/15	10:26	X	X	X	2	1				Routine	HOLD
2	12	B1-3		↓	X	X	X	2	1					↓
3	13	B2-0.5		10:49	X	X		2	1					
4	14	B2-1			X	X		2	1					HOLD
5	15	B2-1.5			X	X		2	1					↓
6	16	B2-2			X	X		2	1					
7	17	B2-2.5			X	X		2	1					
8	18	B2-3		↓	X	X		2	1					↓
9	19	B3-0.5	↓	11:07	X	X		2	1					
10	20	B3-1		↓	X	X		2	1					HOLD

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 respectively 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.

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

John Gonzales — Submitter Print Name / Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			Edward Rodriguez	3-30-15	1230
Edward Rodriguez	3-30-15	1310	[signature]	3/30/15	1300

ADVANCED TECHNOLOGY LABORATORIES
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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wong
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
TAT
Container: # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NAS2O3
QA/QC: Routine, Caltrans, Legal, RWQCB Level IV
REMARKS

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Soil	TAT	#	REMARKS
1	650113 - 1	B3 - 1.5	3/28/15	11:07	X	X							1	HOLD
2	2	B3 - 2			X								1	
3	3	B3 - 2.5			X								1	
4	4	B3 - 3			X								1	
5	5	B4 - 0.5		11:22	X	X						2	1	
6	6	B4 - 1			X								1	HOLD
7	7	B4 - 1.5			X								1	
8	8	B4 - 2			X								1	
9	9	B4 - 2.5			X								1	
10	10	B4 - 3			X								1	

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.
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   - 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)
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9. Storage and Report Fees:
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   - 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.

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

John Gonzales — Submitter Print Name

Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1	ECR Edward Rodriguez	3-30-15	1310	ECR Edward Rodriguez	3-30-15	1330
2				FROM	3/30/15	1310
3						

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only			ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt	
		Condition Y N	Condition Y N
Client / ATL		1. CHILLED	5. # OF SAMPLES MATCH COC
FedEx / OnTrac		2. HEADSPACE (VOA)	6. PRESERVED
GSO		3. CONTAINER INTACT	7. COOLER TEMP, deg C:
Other:		4. SEALED	

CUSTOMER

Company: TRC			Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
			City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wis
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TAT	#	REMARKS
1	19011 24 - 34	B5 - 0.5	3/28/15	11:52	X	X	X	2	1	
2	32	B5 - 1			X	X	X		1	HOLD
3	33	B5 - 1.5			X	X	X		1	
4	34	B5 - 2			X	X	X		1	
5	35	B5 - 2.5			X	X	X		1	
6	36	B5 - 3		↓	X	X	X		1	↓
7	37	B6 - 0.5		12:07	X	[redacted]	✓	2	1	
8	38	B6 - 1			X	[redacted]	✓		1	HOLD
9	39	B6 - 1.5			X	[redacted]			1	
10	40	B6 - 2	↓	↓	X	[redacted]			1	↓

Encircle Sample Matrix: Soil | Select Solid Matrix | Select Water Matrix | Select Wastewater Matrix | Select Aqueous Matrix | Enter Custom Matrix

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister. Material: 1=Glass; 2=Plastic; 3=Metal. Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine | Caltrans | Legal | RWQCB Level IV

TERMS

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			ECR Edward Rodriguez	3-30-15	1230
ECR Edward Rodriguez	3-30-15	1310	FEDEX	3/30/15	1315
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn:	Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles	State: CA	Zip: 90017	City:	State:	Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay | Quote #: | Special Instructions/Comments:
Project No.: 231058.0000.0004 | PO #:
Sampler: L. Wicks

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	TAT	#	Container Type	Preservative	Material	QA/QC	REMARKS
1	1501174 - 41	B6 - 2.5	3/28/15	12:07	X	X						1				Routine	HOLD
2	42	B6 - 3		↓	X	X						1				Caltrans	↓
3	43	B7 - 0.5		12:20	X	X	X	X	X		2	1				Legal	
4	44	B7 - 1			X	X						1				RWQCB	HOLD
5	45	B7 - 1.5			X	X						1				Level IV	
6	46	B7 - 2			X	X						1					
7	47	B7 - 2.5			X	X						1					
8	48	B7 - 3		↓	X	X						1					↓
9	49	C1 - 0.5		12:30	X	X	X	X	X		2	1					
10	50	C1 - 1	↓	↓	X	X						1					HOLD

Encircle Sample Matrix: Soil | Select Solid Matrix | Select Water Matrix | Select Wastewater Matrix | Select Aqueous Matrix | Enter Custom Matrix

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal | Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (AcO)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine, Caltrans, Legal, RWQCB Level IV

TERMS

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			ELR Edward Rodriguez	3-30-15	1230
ELR Edward Rodriguez	3-30-15	1310	[signature]	3/30/15	1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715	
Method of Transport		Sample Conditions Upon Receipt			
		Condition	Y	N	Condition	Y	N
Client / FedEx / GSO / Other:	ATL / OnTrac	1. CHILLED			5. # OF SAMPLES MATCH COC		
		2. HEADSPACE (VOA)			6. PRESERVED		
		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
		4. SEALED					

CUSTOMER

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	City: Los Angeles	State: CA Zip: 90017	Fax:

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Company: TRC	Company:
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City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wilcox
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1501174-51	C1-1.5	3/26/15	12:30									X	X																1				HOLD
2	52	C1-2											X																	1				
3	53	C1-2.5											X																	1				
4	54	C1-3											X																	1				
5	55	C2-0.5		13:42									X	X															2	1				
6	56	C2-1											X																	1				HOLD
7	57	C2-1.5											X																	1				
8	58	C2-2											X																	1				
9	59	C2-2.5											X																	1				
10	60	C2-3											X																	1				

TERMS

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John Gonzales
Submitter Print Name

Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1	ECR Edward Rodriguez	3-30-15	1310	ECR Edward Rodriguez	3.30-15	1230
2					3/30/15	1310
3						

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 3250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Ste 3250
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicas
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Soil	TAT	#	REMARKS
1	1000174-61	C3-0.5	3/28/15	13:52	X	X	X					2	1	
2	62	C3-1			X	X	X						1	HOLD
3	63	C3-1.5			X	X	X						1	
4	64	C3-2			X	X	X						1	
5	65	C3-2.5			X	X	X						1	
6	66	C3-3			X	X	X						1	
7	67	C4-0.5		11:02	X	X	X					2	1	
8	68	C4-1			X	X	X						1	HOLD
9	69	C4-1.5			X	X	X						1	
10	↓	C4-2	↓	↓	X	X	X						1	↓

Container: Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister | Material: 1=Glass; 2=Plastic; 3=Metal | Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine, Caltrans, Legal, RWQCB Level IV

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Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
ECR Edward Rodriguez	3-30-15	1310	ELR Edward Rodriguez	3-30-15	1230
				3/30/15	1310

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver:20130715
Method of Transport	Sample Conditions Upon Receipt	
Client ATL FedEx OnTrac GSO Other:	1. CHILLED 2. HEADSPACE (VOA) 3. CONTAINER INTACT 4. SEALED	5. # OF SAMPLES MATCH COC 6. PRESERVED 7. COOLER TEMP, deg C:

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400	
	City: Los Angeles	State: CA	Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis; Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	150177-71	C4-2.5	3/28/15	14:02		1				HOLD
2	72	C4-3		↓		1				↓
3	73	C5-0.5		14:14	2	1				
4	74	C5-1				1				HOLD
5	75	C5-1.5				1				
6	76	C5-2				1				
7	77	C5-2.5				1				
8	78	C5-3		↓		1				↓
9	79	C6-0.5		14:30	2	1				
10	80	C6-1		↓		1				HOLD

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

TERMS

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			ECK Edward Rodriguez	3-30-15	1230
ECK Edward Rodriguez	3-30-15	1310	FEDEX	3/30/15	1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver:20130715
Method of Transport	Sample Conditions Upon Receipt	
	Condition Y N	Condition Y N
Client ATL	1. CHILLED	5. # OF SAMPLES MATCH COC
FedEx OnTrac	2. HEADSPACE (VOA)	6. PRESERVED
GSO	3. CONTAINER INTACT	7. COOLER TEMP, deg C:
Other:	4. SEALED	

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250			Tel: (213) 213-9400	
	City: Los Angeles	State: CA	Zip: 90017	Fax:	

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO	
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn:	Email:
Company: TRC		Company:	
Address: 707 Wilshire Blvd. Ste 3250		Address:	
City: Los Angeles	State: CA Zip: 90017	City:	State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wilcs
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOCs and Oxygenates (8260); VOC's (8260); Enter Custom Analysis; Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: Routine / Caltrans / Legal / RWQCB Level IV — REMARKS
1	150114-81	C6-1.5	3/28/15	14:30		1				HOLD
2	82	C6-2				1				
3	83	C6-2.5				1				
4	84	C6-3		↓		1				↓
5	85	C7-0.5		14:50	2	1				
6	86	C7-1				1				HOLD
7	87	C7-1.5				1				
8	88	C7-2				1				
9	89	C7-2.5	↓			1				
10	90	C7-3		↓		1				↓

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John Gonzales
Submitter Print Name — Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1				Edward Rodriguez	3-30-15	1230
2	Edward Rodriguez	3-30-15	1310	FEDEX	3/30/15	1310
3						

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 3250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Ste 3250
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	TAT	#	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	150117A-91	AZ-0.5	3/28/15	9:50	X	X					2	1				Routine	
2	92	AZ-1			X	X						1				Caltrans	HOLD
3	93	AZ-1.5			X	X						1				Legal	
4	94	AZ-2			X	X						1				RWQCB	
5	95	AZ-2.5			X	X	X					1				Level IV	
6	96	AZ-3		↓	X	X						1					↓
7	97	D1-0.5		16:10	X	X					2	1					
8	98	D1-1			X	X						1					HOLD
9	99	D1-1.5			X	X						1					
10	APX	D1-2	↓	↓	X	X						1					↓

Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Edward Rodriguez	3-30-15	1310	Edward Rodriguez	3-30-15	1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C Wicks
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Soil	TAT	Container #	REMARKS
1	(0111M - AB	D1-2.5	3/28/15	15:10	X	X							1	HOLD
2	AC	D1-3	↓	↓	X	X							1	↓
3	AD	D2-0.5		15:26	X	X						2	1	
4	AE	D2-1			X	X							1	HOLD
5	AF	D2-1.5			X	X	↓	↓	↓	↓			1	↓
6	AG	D2-2			X	X							1	
7	AH	D2-2.5			X	X							1	
8	AI	D2-3		↓	X	X							1	↓
9	AJ	D3-0.5		15:42	X	X						2	1	
10	AK	D3-1	↓	↓	X	X							1	HOLD

Encircle or Write Requested Analysis: Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister. Material: 1=Glass; 2=Plastic; 3=Metal. Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (AcZ); 6=NaOH; 7=NA2S2O3

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

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John Gonzales — Submitter Print Name | Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1				Edward Rodriguez	3-30-15	1230
2	ECR Edward Rodriguez	3-30-15	1310	FEDEX	3/30/15	1310
3						

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250			Tel: (213) 213-9400
		City: Los Angeles	State: CA	Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
LAUSD Foshay		
Project No.: 231058.0000.0004	PO #:	
Sampler:		

Encircle or Write Requested Analysis — Encircle Sample Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #:	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NAZSZO3	REMARKS
1	601121 – AL	D3-1.5	3/28/15	15:42									X	X																1				HOLD
2	AM	D3-2											X	X																1				
3	AN	D3-2.5											X	X																1				
4	AO	D3-3											X	X																1				
5	AP	D4-0.5		16:00									X	X															3	1				
6	AQ	D4-1											X	X																1				HOLD
7	AR	D4-1.5											X	X																1				
8	AS	D4-2											X	X																1				
9	AT	D4-2.5											X	X																1				
10	AU	D4-3											X	X																1				

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John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)		Date:	Time:	Received by: (Signature and Printed Name) ECR Edward Rodriguez		Date: 3-30-15	Time: 1230
Relinquished by: (Signature and Printed Name) ECR Edward Rodriguez		Date: 3-30-15	Time: 1310	Received by: (Signature and Printed Name) FEDEX		Date: 3/30/15	Time: 1300
Relinquished by: (Signature and Printed Name)		Date:	Time:	Received by: (Signature and Printed Name)		Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page ____ of ____

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client	ATL	1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx	OnTrac	2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
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Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn:	Email:
Company: TRC		Company:	
Address: 707 Wilshire Blvd. Ste 3250		Address:	
City: Los Angeles	State: CA Zip: 90017	City:	State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler:
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	150177-AV	EQ Blank	3/28/15	16:46	X	X	X	5	2	3	1/2	1	
2													
3													
4													
5													
6													
7													
8													
9													
10													

Encircle or Write Requested Analysis: Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister — Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

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   - 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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			ECE Edward Rodriguez	3-30-15	1230
ECE Edward Rodriguez	3-30-15	1310	FEDEX	3/30/15	1300
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

April 14, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501133

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on March 30, 2015 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,



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

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
D5-0.5	1501133-01	Soil	3/29/15 8:34	3/30/15 12:30
D6-0.5	1501133-07	Soil	3/29/15 8:50	3/30/15 12:30
D7-0.5	1501133-13	Soil	3/29/15 9:08	3/30/15 12:30
E1-0.5	1501133-19	Soil	3/29/15 9:34	3/30/15 12:30
E2-0.5	1501133-25	Soil	3/29/15 9:45	3/30/15 12:30
E3-0.5	1501133-31	Soil	3/29/15 10:00	3/30/15 12:30
E4-0.5	1501133-37	Soil	3/29/15 10:19	3/30/15 12:30
E5-0.5	1501133-43	Soil	3/29/15 10:40	3/30/15 12:30
E6-0.5	1501133-49	Soil	3/29/15 10:50	3/30/15 12:30
E7-0.5	1501133-55	Soil	3/29/15 11:03	3/30/15 12:30
DUP1-0.5	1501133-61	Soil	3/29/15 0:00	3/30/15 12:30
F1-0.5	1501133-62	Soil	3/29/15 11:55	3/30/15 12:30
F2-0.5	1501133-68	Soil	3/29/15 12:18	3/30/15 12:30
F2-1	1501133-69	Soil	3/29/15 12:18	3/30/15 12:30
F2-1.5	1501133-70	Soil	3/29/15 12:18	3/30/15 12:30
F3-0.5	1501133-74	Soil	3/29/15 12:35	3/30/15 12:30
F4-0.5	1501133-80	Soil	3/29/15 12:50	3/30/15 12:30
DUP2-0.5	1501133-86	Soil	3/29/15 0:00	3/30/15 12:30
F5-0.5	1501133-87	Soil	3/29/15 13:15	3/30/15 12:30
F6-0.5	1501133-93	Soil	3/29/15 13:25	3/30/15 12:30
F7-0.5	1501133-99	Soil	3/29/15 13:42	3/30/15 12:30
G2-0.5	1501133-AF	Soil	3/29/15 14:00	3/30/15 12:30
G3-0.5	1501133-AL	Soil	3/29/15 14:23	3/30/15 12:30
G4-0.5	1501133-AR	Soil	3/29/15 14:42	3/30/15 12:30
DUP3-0.5	1501133-AX	Soil	3/29/15 0:00	3/30/15 12:30
EQ Blank	1501133-AY	Water	3/29/15 15:15	3/30/15 12:30
G5-0.5	1501133-AZ	Soil	3/29/15 0:00	3/30/15 12:30

CASE NARRATIVE

The samples for EPA 6020 analysis were subcontracted to AETL with DOHS Cert.#1541.

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501133-55	E7-0.5	**18**	mg/kg	1.0	1	B5D0006	04/01/2015	04/01/15 11:52	
1501133-61	DUP1-0.5	**14**	mg/kg	1.0	1	B5D0006	04/01/2015	04/01/15 11:54	
1501133-62	F1-0.5	**9.2**	mg/kg	1.0	1	B5D0006	04/01/2015	04/01/15 11:56	
1501133-86	DUP2-0.5	**18**	mg/kg	1.0	1	B5D0006	04/01/2015	04/01/15 12:01	
1501133-87	F5-0.5	**14**	mg/kg	1.0	1	B5D0006	04/01/2015	04/01/15 12:03	

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501133-AY	EQ Blank	**ND**	mg/L	0.0050	1	B5C0789	03/31/2015	04/01/15 09:47	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

Client Sample ID DUP1-0.5
Lab ID: 1501133-61

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
4,4´-DDE	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
4,4´-DDT	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Aldrin	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
alpha-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
alpha-Chlordane	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
beta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Chlordane	ND	8.5	1	B5C0810	03/31/2015	04/01/15 09:54	
delta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Dieldrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Endosulfan I	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Endosulfan II	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Endosulfan sulfate	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Endrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Endrin aldehyde	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Endrin ketone	ND	2.0	1	B5C0810	03/31/2015	04/01/15 09:54	
gamma-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
gamma-Chlordane	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Heptachlor	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Heptachlor epoxide	ND	1.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Methoxychlor	ND	5.0	1	B5C0810	03/31/2015	04/01/15 09:54	
Toxaphene	ND	50	1	B5C0810	03/31/2015	04/01/15 09:54	
Surrogate: Decachlorobiphenyl	*63.1 %*	*16 - 137*		B5C0810	03/31/2015	*04/01/15 09:54*	
Surrogate: Tetrachloro-m-xylene	*62.6 %*	*16 - 105*		B5C0810	03/31/2015	*04/01/15 09:54*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

Client Sample ID F1-0.5
Lab ID: 1501133-62

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
4,4´-DDE	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
4,4´-DDT	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Aldrin	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
alpha-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
alpha-Chlordane	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
beta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Chlordane	ND	8.5	1	B5C0810	03/31/2015	04/01/15 10:04	
delta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Dieldrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Endosulfan I	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Endosulfan II	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Endosulfan sulfate	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Endrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Endrin aldehyde	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Endrin ketone	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:04	
gamma-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
gamma-Chlordane	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Heptachlor	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Heptachlor epoxide	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Methoxychlor	ND	5.0	1	B5C0810	03/31/2015	04/01/15 10:04	
Toxaphene	ND	50	1	B5C0810	03/31/2015	04/01/15 10:04	
Surrogate: Decachlorobiphenyl	*63.4 %*	*16 - 137*		B5C0810	03/31/2015	*04/01/15 10:04*	
Surrogate: Tetrachloro-m-xylene	*60.3 %*	*16 - 105*		B5C0810	03/31/2015	*04/01/15 10:04*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

Client Sample ID DUP2-0.5
Lab ID: 1501133-86

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
4,4´-DDE [2C]	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
4,4´-DDT	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Aldrin	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
alpha-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
alpha-Chlordane [2C]	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
beta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Chlordane [2C]	ND	8.5	1	B5C0810	03/31/2015	04/01/15 10:15	
delta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Dieldrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Endosulfan I	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Endosulfan II	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Endosulfan sulfate	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Endrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Endrin aldehyde	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Endrin ketone	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:15	
gamma-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
gamma-Chlordane [2C]	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Heptachlor	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Heptachlor epoxide	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Methoxychlor	ND	5.0	1	B5C0810	03/31/2015	04/01/15 10:15	
Toxaphene	ND	50	1	B5C0810	03/31/2015	04/01/15 10:15	
Surrogate: Decachlorobiphenyl	*62.5 %*	*16 - 137*		B5C0810	03/31/2015	*04/01/15 10:15*	
Surrogate: Tetrachloro-m-xylene	*57.4 %*	*16 - 105*		B5C0810	03/31/2015	*04/01/15 10:15*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

Client Sample ID F5-0.5
Lab ID: 1501133-87

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
4,4´-DDE [2C]	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
4,4´-DDT	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Aldrin	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
alpha-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
alpha-Chlordane [2C]	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
beta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Chlordane	ND	8.5	1	B5C0810	03/31/2015	04/01/15 10:25	
delta-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Dieldrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Endosulfan I	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Endosulfan II	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Endosulfan sulfate	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Endrin	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Endrin aldehyde	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Endrin ketone	ND	2.0	1	B5C0810	03/31/2015	04/01/15 10:25	
gamma-BHC	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
gamma-Chlordane [2C]	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Heptachlor	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Heptachlor epoxide	ND	1.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Methoxychlor	ND	5.0	1	B5C0810	03/31/2015	04/01/15 10:25	
Toxaphene	ND	50	1	B5C0810	03/31/2015	04/01/15 10:25	
Surrogate: Decachlorobiphenyl	*63.1 %*	*16 - 137*		B5C0810	03/31/2015	*04/01/15 10:25*	
Surrogate: Tetrachloro-m-xylene	*61.2 %*	*16 - 105*		B5C0810	03/31/2015	*04/01/15 10:25*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

Client Sample ID EQ Blank
Lab ID: 1501133-AY

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
4,4´-DDE	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
4,4´-DDT	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
Aldrin	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
alpha-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
alpha-Chlordane	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
beta-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
Chlordane	ND	0.25	1	B5C0790	03/31/2015	04/01/15 09:22	
delta-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
Dieldrin	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
Endosulfan I	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
Endosulfan II	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
Endosulfan sulfate	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
Endrin	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
Endrin aldehyde	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
Endrin ketone	ND	0.05	1	B5C0790	03/31/2015	04/01/15 09:22	
gamma-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
gamma-Chlordane	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
Heptachlor	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
Heptachlor epoxide	ND	0.02	1	B5C0790	03/31/2015	04/01/15 09:22	
Methoxychlor	ND	0.25	1	B5C0790	03/31/2015	04/01/15 09:22	
Toxaphene	ND	2.5	1	B5C0790	03/31/2015	04/01/15 09:22	
Surrogate: Decachlorobiphenyl	*67.9 %*	*20 - 138*		B5C0790	03/31/2015	*04/01/15 09:22*	
Surrogate: Tetrachloro-m-xylene	*74.3 %*	*11 - 133*		B5C0790	03/31/2015	*04/01/15 09:22*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0789 - EPA 3010A_W									
Blank (B5C0789-BLK1)					Prepared: 3/31/2015 Analyzed: 4/1/2015				
Lead	ND	0.0050			NR				
LCS (B5C0789-BS1)					Prepared: 3/31/2015 Analyzed: 4/1/2015				
Lead	1.00482	0.0050	1.00000		100	80 - 120			
Duplicate (B5C0789-DUP1)		**Source: 1501131-AV**			Prepared: 3/31/2015 Analyzed: 4/1/2015				
Lead	ND	0.0050		ND	NR			20	
Matrix Spike (B5C0789-MS1)		**Source: 1501131-AV**			Prepared: 3/31/2015 Analyzed: 4/1/2015				
Lead	2.49510	0.0050	2.50000	ND	99.8	85 - 114			
Matrix Spike Dup (B5C0789-MSD1)		**Source: 1501131-AV**			Prepared: 3/31/2015 Analyzed: 4/1/2015				
Lead	2.47544	0.0050	2.50000	ND	99.0	85 - 114	0.791	20	
Batch B5D0006 - EPA 3050B_S									
Blank (B5D0006-BLK1)					Prepared: 4/1/2015 Analyzed: 4/1/2015				
Lead	ND	1.0			NR				
LCS (B5D0006-BS1)					Prepared: 4/1/2015 Analyzed: 4/1/2015				
Lead	46.8033	1.0	50.0000		93.6	80 - 120			
Duplicate (B5D0006-DUP1)		**Source: 1501131-07**			Prepared: 4/1/2015 Analyzed: 4/1/2015				
Lead	47.3250	1.0		50.8151	NR		7.11	20	
Matrix Spike (B5D0006-MS1)		**Source: 1501131-07**			Prepared: 4/1/2015 Analyzed: 4/1/2015				
Lead	155.342	1.0	125.628	50.8151	83.2	35 - 129			
Matrix Spike Dup (B5D0006-MSD1)		**Source: 1501131-07**			Prepared: 4/1/2015 Analyzed: 4/1/2015				
Lead	152.632	1.0	125.000	50.8151	81.5	35 - 129	1.76	20	

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W									
Blank (B5C0790-BLK1)					Prepared: 3/31/2015 Analyzed: 3/31/2015				
4,4´-DDD	ND	0.05			NR				
4,4´-DDD [2C]	ND	0.05			NR				
4,4´-DDE	ND	0.05			NR				
4,4´-DDE [2C]	ND	0.05			NR				
4,4´-DDT	ND	0.05			NR				
4,4´-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				
Methoxychlor [2C]	ND	0.25			NR				
Toxaphene	ND	2.5			NR				
Toxaphene [2C]	ND	2.5			NR				
Surrogate: Decachlorobiphenyl	*0.3596*		*0.500000*		*71.9*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3513*		*0.500000*		*70.3*	*20 - 138*			

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
Blank (B5C0790-BLK1) - Continued					Prepared: 3/31/2015 Analyzed: 3/31/2015				
Surrogate: Tetrachloro-m-xylene	*0.3458*		*0.500000*		*69.2*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3579*		*0.500000*		*71.6*	*11 - 133*			
LCS (B5C0790-BS1)					Prepared: 3/31/2015 Analyzed: 3/31/2015				
4,4´-DDD	0.410085	0.05	0.500000		82.0	56 - 107			
4,4´-DDD [2C]	0.439180	0.05	0.500000		87.8	56 - 107			
4,4´-DDE	0.447170	0.05	0.500000		89.4	62 - 107			
4,4´-DDE [2C]	0.473840	0.05	0.500000		94.8	62 - 107			
4,4´-DDT	0.408690	0.05	0.500000		81.7	41 - 110			
4,4´-DDT [2C]	0.410125	0.05	0.500000		82.0	41 - 110			
Aldrin	0.432705	0.02	0.500000		86.5	56 - 101			
Aldrin [2C]	0.456380	0.02	0.500000		91.3	56 - 101			
alpha-BHC	0.397830	0.02	0.500000		79.6	55 - 89			
alpha-BHC [2C]	0.421700	0.02	0.500000		84.3	55 - 89			
alpha-Chlordane	0.433750	0.02	0.500000		86.8	57 - 103			
alpha-Chlordane [2C]	0.457220	0.02	0.500000		91.4	57 - 103			
beta-BHC	0.388215	0.02	0.500000		77.6	58 - 95			
beta-BHC [2C]	0.402050	0.02	0.500000		80.4	58 - 95			
delta-BHC	0.418805	0.02	0.500000		83.8	12 - 80			L3
delta-BHC [2C]	0.447560	0.02	0.500000		89.5	12 - 80			L3
Dieldrin	0.425315	0.05	0.500000		85.1	60 - 102			
Dieldrin [2C]	0.433270	0.05	0.500000		86.7	60 - 102			
Endosulfan I	0.402360	0.02	0.500000		80.5	55 - 98			
Endosulfan I [2C]	0.417580	0.02	0.500000		83.5	55 - 98			
Endosulfan II	0.407965	0.05	0.500000		81.6	62 - 101			
Endosulfan II [2C]	0.415075	0.05	0.500000		83.0	62 - 101			
Endosulfan sulfate	0.493915	0.05	0.500000		98.8	54 - 95			L3
Endosulfan Sulfate [2C]	0.489020	0.05	0.500000		97.8	54 - 95			L3
Endrin	0.435850	0.05	0.500000		87.2	62 - 102			
Endrin [2C]	0.447950	0.05	0.500000		89.6	62 - 102			
Endrin aldehyde	0.396980	0.05	0.500000		79.4	62 - 104			
Endrin aldehyde [2C]	0.422390	0.05	0.500000		84.5	62 - 104			
Endrin ketone	0.379680	0.05	0.500000		75.9	61 - 102			
Endrin ketone [2C]	0.363610	0.05	0.500000		72.7	61 - 102			
gamma-BHC	0.412740	0.02	0.500000		82.5	60 - 94			
gamma-BHC [2C]	0.435285	0.02	0.500000		87.1	60 - 94			
gamma-Chlordane	0.435485	0.02	0.500000		87.1	58 - 103			
gamma-Chlordane [2C]	0.454140	0.02	0.500000		90.8	58 - 103			
Heptachlor	0.436920	0.02	0.500000		87.4	65 - 103			
Heptachlor [2C]	0.453825	0.02	0.500000		90.8	65 - 103			
Heptachlor epoxide	0.435855	0.02	0.500000		87.2	59 - 102			
Heptachlor epoxide [2C]	0.449335	0.02	0.500000		89.9	59 - 102			
Methoxychlor	0.422445	0.25	0.500000		84.5	40 - 105			
Methoxychlor [2C]	0.386600	0.25	0.500000		77.3	40 - 105			
Surrogate: Decachlorobiphenyl	*0.3693*		*0.500000*		*73.9*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3659*		*0.500000*		*73.2*	*20 - 138*			

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
LCS (B5C0790-BS1) - Continued					Prepared: 3/31/2015 Analyzed: 3/31/2015				
Surrogate: Tetrachloro-m-xylene	*0.3615*		*0.500000*		*72.3*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3769*		*0.500000*		*75.4*	*11 - 133*			
LCS Dup (B5C0790-BSD1)					Prepared: 3/31/2015 Analyzed: 3/31/2015				
4,4´-DDD	0.413785	0.05	0.500000		82.8	56 - 107	0.898	20	
4,4´-DDD [2C]	0.439070	0.05	0.500000		87.8	56 - 107	0.0250	20	
4,4´-DDE	0.450660	0.05	0.500000		90.1	62 - 107	0.777	20	
4,4´-DDE [2C]	0.475255	0.05	0.500000		95.1	62 - 107	0.298	20	
4,4´-DDT	0.412705	0.05	0.500000		82.5	41 - 110	0.978	20	
4,4´-DDT [2C]	0.409020	0.05	0.500000		81.8	41 - 110	0.270	20	
Aldrin	0.436360	0.02	0.500000		87.3	56 - 101	0.841	20	
Aldrin [2C]	0.459620	0.02	0.500000		91.9	56 - 101	0.707	20	
alpha-BHC	0.402610	0.02	0.500000		80.5	55 - 89	1.19	20	
alpha-BHC [2C]	0.425415	0.02	0.500000		85.1	55 - 89	0.877	20	
alpha-Chlordane	0.439150	0.02	0.500000		87.8	57 - 103	1.24	20	
alpha-Chlordane [2C]	0.459165	0.02	0.500000		91.8	57 - 103	0.424	20	
beta-BHC	0.390800	0.02	0.500000		78.2	58 - 95	0.664	20	
beta-BHC [2C]	0.403965	0.02	0.500000		80.8	58 - 95	0.475	20	
delta-BHC	0.420465	0.02	0.500000		84.1	12 - 80	0.396	20	L3
delta-BHC [2C]	0.449125	0.02	0.500000		89.8	12 - 80	0.349	20	L3
Dieldrin	0.429505	0.05	0.500000		85.9	60 - 102	0.980	20	
Dieldrin [2C]	0.434310	0.05	0.500000		86.9	60 - 102	0.240	20	
Endosulfan I	0.405560	0.02	0.500000		81.1	55 - 98	0.792	20	
Endosulfan I [2C]	0.419040	0.02	0.500000		83.8	55 - 98	0.349	20	
Endosulfan II	0.411735	0.05	0.500000		82.3	62 - 101	0.920	20	
Endosulfan II [2C]	0.416160	0.05	0.500000		83.2	62 - 101	0.261	20	
Endosulfan sulfate	0.494545	0.05	0.500000		98.9	54 - 95	0.127	20	L3
Endosulfan Sulfate [2C]	0.490335	0.05	0.500000		98.1	54 - 95	0.269	20	L3
Endrin	0.439830	0.05	0.500000		88.0	62 - 102	0.909	20	
Endrin [2C]	0.448730	0.05	0.500000		89.7	62 - 102	0.174	20	
Endrin aldehyde	0.399475	0.05	0.500000		79.9	62 - 104	0.627	20	
Endrin aldehyde [2C]	0.423290	0.05	0.500000		84.7	62 - 104	0.213	20	
Endrin ketone	0.377535	0.05	0.500000		75.5	61 - 102	0.567	20	
Endrin ketone [2C]	0.362475	0.05	0.500000		72.5	61 - 102	0.313	20	
gamma-BHC	0.416255	0.02	0.500000		83.3	60 - 94	0.848	20	
gamma-BHC [2C]	0.438500	0.02	0.500000		87.7	60 - 94	0.736	20	
gamma-Chlordane	0.438985	0.02	0.500000		87.8	58 - 103	0.800	20	
gamma-Chlordane [2C]	0.455710	0.02	0.500000		91.1	58 - 103	0.345	20	
Heptachlor	0.440480	0.02	0.500000		88.1	65 - 103	0.811	20	
Heptachlor [2C]	0.456220	0.02	0.500000		91.2	65 - 103	0.526	20	
Heptachlor epoxide	0.438500	0.02	0.500000		87.7	59 - 102	0.605	20	
Heptachlor epoxide [2C]	0.451065	0.02	0.500000		90.2	59 - 102	0.384	20	
Methoxychlor	0.423255	0.25	0.500000		84.7	40 - 105	0.192	20	
Methoxychlor [2C]	0.397615	0.25	0.500000		79.5	40 - 105	2.81	20	
Surrogate: Decachlorobiphenyl	*0.3664*		*0.500000*		*73.3*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3631*		*0.500000*		*72.6*	*20 - 138*			

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
LCS Dup (B5C0790-BSD1) - Continued					Prepared: 3/31/2015 Analyzed: 3/31/2015				
Surrogate: Tetrachloro-m-xylene	*0.3645*		*0.500000*		*72.9*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3800*		*0.500000*		*76.0*	*11 - 133*			
Batch B5C0810 - GCSEMI_PCB/PEST_S									
Blank (B5C0810-BLK1)					Prepared: 3/31/2015 Analyzed: 4/1/2015				
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5C0810-BLK1) - Continued					Prepared: 3/31/2015 Analyzed: 4/1/2015				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*11.98*		*16.6667*		*71.9*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.10*		*16.6667*		*72.6*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.19*		*16.6667*		*73.2*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.54*		*16.6667*		*75.2*	*16 - 105*			
LCS (B5C0810-BS1)					Prepared: 3/31/2015 Analyzed: 4/1/2015				
4,4´-DDD	14.4367	2.0	16.6667		86.6	58 - 100			
4,4´-DDD [2C]	15.1750	2.0	16.6667		91.0	58 - 100			
4,4´-DDE	15.7292	2.0	16.6667		94.4	65 - 99			
4,4´-DDE [2C]	16.5272	2.0	16.6667		99.2	65 - 99			L3
4,4´-DDT	14.3690	2.0	16.6667		86.2	39 - 116			
4,4´-DDT [2C]	13.8178	2.0	16.6667		82.9	39 - 116			
Aldrin	15.2937	1.0	16.6667		91.8	57 - 94			
Aldrin [2C]	16.0242	1.0	16.6667		96.1	57 - 94			L3
alpha-BHC	14.3508	1.0	16.6667		86.1	58 - 84			L3
alpha-BHC [2C]	14.8908	1.0	16.6667		89.3	58 - 84			L3
alpha-Chlordane	15.3215	1.0	16.6667		91.9	58 - 96			
alpha-Chlordane [2C]	16.0207	1.0	16.6667		96.1	58 - 96			L3
beta-BHC	13.7125	1.0	16.6667		82.3	58 - 87			
beta-BHC [2C]	14.1093	1.0	16.6667		84.7	58 - 87			
delta-BHC	14.7358	1.0	16.6667		88.4	18 - 75			L3
delta-BHC [2C]	15.6542	1.0	16.6667		93.9	18 - 75			L3
Dieldrin	14.9560	2.0	16.6667		89.7	62 - 94			
Dieldrin [2C]	15.1570	2.0	16.6667		90.9	62 - 94			
Endosulfan I	14.1130	1.0	16.6667		84.7	58 - 90			
Endosulfan I [2C]	14.6115	1.0	16.6667		87.7	58 - 90			
Endosulfan II	14.3870	2.0	16.6667		86.3	63 - 95			
Endosulfan II [2C]	14.5320	2.0	16.6667		87.2	63 - 95			
Endosulfan sulfate	17.2405	2.0	16.6667		103	59 - 89			L3
Endosulfan Sulfate [2C]	17.0087	2.0	16.6667		102	59 - 89			L3
Endrin	15.3262	2.0	16.6667		92.0	64 - 96			
Endrin [2C]	15.5358	2.0	16.6667		93.2	64 - 96			
Endrin aldehyde	14.0703	2.0	16.6667		84.4	65 - 95			
Endrin aldehyde [2C]	14.8257	2.0	16.6667		89.0	65 - 95			
Endrin ketone	13.3933	2.0	16.6667		80.4	59 - 101			
Endrin ketone [2C]	12.7722	2.0	16.6667		76.6	59 - 101			
gamma-BHC	14.6488	1.0	16.6667		87.9	63 - 89			
gamma-BHC [2C]	15.3302	1.0	16.6667		92.0	63 - 89			L3
gamma-Chlordane	15.3182	1.0	16.6667		91.9	61 - 95			
gamma-Chlordane [2C]	15.8643	1.0	16.6667		95.2	61 - 95			L3
Heptachlor	15.4165	1.0	16.6667		92.5	65 - 102			
Heptachlor [2C]	15.5125	1.0	16.6667		93.1	65 - 102			
Heptachlor epoxide	15.2918	1.0	16.6667		91.8	61 - 95			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5C0810-BS1) - Continued					Prepared: 3/31/2015 Analyzed: 4/1/2015				
Heptachlor epoxide [2C]	15.7425	1.0	16.6667		94.5	61 - 95			
Methoxychlor	14.7267	5.0	16.6667		88.4	29 - 128			
Methoxychlor [2C]	13.4463	5.0	16.6667		80.7	29 - 128			
Surrogate: Decachlorobiphenyl	*13.39*		*16.6667*		*80.4*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*13.38*		*16.6667*		*80.3*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*13.10*		*16.6667*		*78.6*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.63*		*16.6667*		*81.8*	*16 - 105*			
Matrix Spike (B5C0810-MS1)		**Source: 1501133-61**			Prepared: 3/31/2015 Analyzed: 4/1/2015				
4,4´-DDD	11.1240	2.0	16.6667	ND	66.7	27 - 123			
4,4´-DDD [2C]	11.7272	2.0	16.6667	ND	70.4	27 - 123			
4,4´-DDE	13.8365	2.0	16.6667	ND	83.0	28 - 126			
4,4´-DDE [2C]	14.4607	2.0	16.6667	ND	86.8	28 - 126			
4,4´-DDT	12.7263	2.0	16.6667	ND	76.4	12 - 149			
4,4´-DDT [2C]	12.1128	2.0	16.6667	ND	72.7	12 - 149			
Aldrin	13.2782	1.0	16.6667	ND	79.7	29 - 116			
Aldrin [2C]	13.6858	1.0	16.6667	ND	82.1	29 - 116			
alpha-BHC	10.6412	1.0	16.6667	ND	63.8	27 - 104			
alpha-BHC [2C]	11.8533	1.0	16.6667	ND	71.1	27 - 104			
alpha-Chlordane	12.5345	1.0	16.6667	ND	75.2	14 - 130			
alpha-Chlordane [2C]	13.0277	1.0	16.6667	ND	78.2	14 - 130			
beta-BHC	9.77167	1.0	16.6667	ND	58.6	20 - 115			
beta-BHC [2C]	9.79500	1.0	16.6667	ND	58.8	20 - 115			
delta-BHC	9.16850	1.0	16.6667	ND	55.0	8 - 78			
delta-BHC [2C]	9.44383	1.0	16.6667	ND	56.7	8 - 78			
Dieldrin	10.9173	2.0	16.6667	ND	65.5	20 - 134			
Dieldrin [2C]	10.9040	2.0	16.6667	ND	65.4	20 - 134			
Endosulfan I	11.2720	1.0	16.6667	ND	67.6	27 - 114			
Endosulfan I [2C]	11.5520	1.0	16.6667	ND	69.3	27 - 114			
Endosulfan II	8.15133	2.0	16.6667	ND	48.9	16 - 125			
Endosulfan II [2C]	8.17717	2.0	16.6667	ND	49.1	16 - 125			
Endosulfan sulfate	6.59117	2.0	16.6667	ND	39.5	1 - 126			
Endosulfan Sulfate [2C]	6.43433	2.0	16.6667	ND	38.6	1 - 126			
Endrin	11.5910	2.0	16.6667	ND	69.5	33 - 122			
Endrin [2C]	11.5783	2.0	16.6667	ND	69.5	33 - 122			
Endrin aldehyde	5.45433	2.0	16.6667	ND	32.7	0 - 137			
Endrin aldehyde [2C]	4.82883	2.0	16.6667	ND	29.0	0 - 137			
Endrin ketone	6.04033	2.0	16.6667	ND	36.2	10 - 126			
Endrin ketone [2C]	5.64067	2.0	16.6667	ND	33.8	10 - 126			
gamma-BHC	10.4682	1.0	16.6667	ND	62.8	30 - 111			
gamma-BHC [2C]	10.9663	1.0	16.6667	ND	65.8	30 - 111			
gamma-Chlordane	12.0672	1.0	16.6667	ND	72.4	16 - 130			
gamma-Chlordane [2C]	12.4515	1.0	16.6667	ND	74.7	16 - 130			
Heptachlor	13.4637	1.0	16.6667	ND	80.8	34 - 127			
Heptachlor [2C]	13.4773	1.0	16.6667	ND	80.9	34 - 127			
Heptachlor epoxide	11.8413	1.0	16.6667	ND	71.0	19 - 130			

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
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Los Angeles , CA 90017	Reported : 04/14/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5C0810-MS1) - Continued		**Source: 1501133-61**			Prepared: 3/31/2015 Analyzed: 4/1/2015				
Heptachlor epoxide [2C]	12.0023	1.0	16.6667	ND	72.0	19 - 130			
Methoxychlor	9.16883	5.0	16.6667	ND	55.0	16 - 153			
Methoxychlor [2C]	7.94233	5.0	16.6667	ND	47.7	16 - 153			
Surrogate: Decachlorobiphenyl	*12.07*		*16.6667*		*72.4*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.40*		*16.6667*		*68.4*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.61*		*16.6667*		*63.6*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.29*		*16.6667*		*67.7*	*16 - 105*			
Matrix Spike Dup (B5C0810-MSD1)		**Source: 1501133-61**			Prepared: 3/31/2015 Analyzed: 4/1/2015				
4,4´-DDD	10.5957	2.0	16.6667	ND	63.6	27 - 123	4.86	20	
4,4´-DDD [2C]	11.0077	2.0	16.6667	ND	66.0	27 - 123	6.33	20	
4,4´-DDE	12.6127	2.0	16.6667	ND	75.7	28 - 126	9.25	20	
4,4´-DDE [2C]	13.0807	2.0	16.6667	ND	78.5	28 - 126	10.0	20	
4,4´-DDT	11.7937	2.0	16.6667	ND	70.8	12 - 149	7.61	20	
4,4´-DDT [2C]	11.0800	2.0	16.6667	ND	66.5	12 - 149	8.91	20	
Aldrin	12.3207	1.0	16.6667	ND	73.9	29 - 116	7.48	20	
Aldrin [2C]	12.4938	1.0	16.6667	ND	75.0	29 - 116	9.11	20	
alpha-BHC	10.9333	1.0	16.6667	ND	65.6	27 - 104	2.71	20	
alpha-BHC [2C]	11.0818	1.0	16.6667	ND	66.5	27 - 104	6.73	20	
alpha-Chlordane	11.7378	1.0	16.6667	ND	70.4	14 - 130	6.56	20	
alpha-Chlordane [2C]	12.1398	1.0	16.6667	ND	72.8	14 - 130	7.06	20	
beta-BHC	9.84000	1.0	16.6667	ND	59.0	20 - 115	0.697	20	
beta-BHC [2C]	9.82050	1.0	16.6667	ND	58.9	20 - 115	0.260	20	
delta-BHC	9.54700	1.0	16.6667	ND	57.3	8 - 78	4.04	20	
delta-BHC [2C]	9.81250	1.0	16.6667	ND	58.9	8 - 78	3.83	20	
Dieldrin	10.7672	2.0	16.6667	ND	64.6	20 - 134	1.38	20	
Dieldrin [2C]	10.7835	2.0	16.6667	ND	64.7	20 - 134	1.11	20	
Endosulfan I	10.9142	1.0	16.6667	ND	65.5	27 - 114	3.23	20	
Endosulfan I [2C]	11.0833	1.0	16.6667	ND	66.5	27 - 114	4.14	20	
Endosulfan II	8.62533	2.0	16.6667	ND	51.8	16 - 125	5.65	20	
Endosulfan II [2C]	8.49133	2.0	16.6667	ND	50.9	16 - 125	3.77	20	
Endosulfan sulfate	7.32417	2.0	16.6667	ND	43.9	1 - 126	10.5	20	
Endosulfan Sulfate [2C]	7.04050	2.0	16.6667	ND	42.2	1 - 126	9.00	20	
Endrin	11.3267	2.0	16.6667	ND	68.0	33 - 122	2.31	20	
Endrin [2C]	11.4093	2.0	16.6667	ND	68.5	33 - 122	1.47	20	
Endrin aldehyde	6.22033	2.0	16.6667	ND	37.3	0 - 137	13.1	20	
Endrin aldehyde [2C]	5.49617	2.0	16.6667	ND	33.0	0 - 137	12.9	20	
Endrin ketone	6.51883	2.0	16.6667	ND	39.1	10 - 126	7.62	20	
Endrin ketone [2C]	6.10417	2.0	16.6667	ND	36.6	10 - 126	7.89	20	
gamma-BHC	10.3027	1.0	16.6667	ND	61.8	30 - 111	1.59	20	
gamma-BHC [2C]	10.6850	1.0	16.6667	ND	64.1	30 - 111	2.60	20	
gamma-Chlordane	11.4172	1.0	16.6667	ND	68.5	16 - 130	5.54	20	
gamma-Chlordane [2C]	11.8100	1.0	16.6667	ND	70.9	16 - 130	5.29	20	
Heptachlor	12.5138	1.0	16.6667	ND	75.1	34 - 127	7.31	20	
Heptachlor [2C]	12.4445	1.0	16.6667	ND	74.7	34 - 127	7.97	20	
Heptachlor epoxide	11.6035	1.0	16.6667	ND	69.6	19 - 130	2.03	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0810 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5C0810-MSD1) - Continued		**Source: 1501133-61**			Prepared: 3/31/2015 Analyzed: 4/1/2015				
Heptachlor epoxide [2C]	11.6433	1.0	16.6667	ND	69.9	19 - 130	3.04	20	
Methoxychlor	9.41567	5.0	16.6667	ND	56.5	16 - 153	2.66	20	
Methoxychlor [2C]	7.99517	5.0	16.6667	ND	48.0	16 - 153	0.663	20	
Surrogate: Decachlorobiphenyl	*10.92*		*16.6667*		*65.5*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*10.67*		*16.6667*		*64.0*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.05*		*16.6667*		*60.3*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.49*		*16.6667*		*62.9*	*16 - 105*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/14/2015

Notes and Definitions

L3	Laboratory control sample outside in-house established limits but within method criteria.
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)
TX1	TX-NELAP (TCEQ)

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.

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Attention: Rachelle Arada

Number of Pages	**14**
Date Received	**03/31/2015**
Date Reported	**04/01/2015**

Job Number	Order Date	Client
76454	03/31/2015	ATL

Project ID: 1501133
Project Name: PO# SC09473

Enclosed please find results of analyses of 1 water and 22 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Project ID: 1501133
Date Received 03/31/2015
Date Reported 04/02/2015

Job Number	Order Date	Client
76454	03/31/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 23 samples with the following specification on 03/31/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76454.23	1501133-AY	03/29/2015	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ AS	04/01/2015	2	Rush	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76454.01	1501133-01	03/29/2015	Soil	1
76454.02	1501133-07	03/29/2015	Soil	1
76454.03	1501133-13	03/29/2015	Soil	1
76454.04	1501133-19	03/29/2015	Soil	1
76454.05	1501133-25	03/29/2015	Soil	1
76454.06	1501133-31	03/29/2015	Soil	1
76454.07	1501133-37	03/29/2015	Soil	1
76454.08	1501133-43	03/29/2015	Soil	1
76454.09	1501133-49	03/29/2015	Soil	1
76454.10	1501133-61	03/29/2015	Soil	1
76454.11	1501133-62	03/29/2015	Soil	1
76454.12	1501133-68	03/29/2015	Soil	1
76454.13	1501133-74	03/29/2015	Soil	1
76454.14	1501133-80	03/29/2015	Soil	1
76454.15	1501133-86	03/29/2015	Soil	1
76454.16	1501133-87	03/29/2015	Soil	1
76454.17	1501133-93	03/29/2015	Soil	1
76454.18	1501133-99	03/29/2015	Soil	1
76454.19	1501133-AF	03/29/2015	Soil	1
76454.20	1501133-AL	03/29/2015	Soil	1
76454.21	1501133-AR	03/29/2015	Soil	1

Continued

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Project ID: 1501133 Date Received 03/31/2015 Date Reported 04/02/2015

Telephone: (562)989-4045
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Job Number	Order Date	Client
76454	03/31/2015	ATL

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

76454.22	1501133-AX	03/29/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	04/01/2015	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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ANALYTICAL RESULTS

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Page: **2**

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C2

Our Lab I.D.			Method Blank	76454.01	76454.02		
Client Sample I.D.				1501133-01	1501133-07		
Date Sampled				03/29/2015	03/29/2015		
Date Prepared			03/31/2015	03/31/2015	03/31/2015		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			04/01/2015	04/01/2015	04/01/2015		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	ND	1.92	1.85		

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C2

Our Lab I.D.			76454.03	76454.04			
Client Sample I.D.			1501133-13	1501133-19			
Date Sampled			03/29/2015	03/29/2015			
Date Prepared			03/31/2015	03/31/2015			
Preparation Method			3050B	3050B			
Date Analyzed			04/01/2015	04/01/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			5	5			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.25	0.50	3.84	4.38			

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C2

Our Lab I.D.			76454.05	76454.06	76454.07	76454.08	76454.09
Client Sample I.D.			1501133-25	1501133-31	1501133-37	1501133-43	1501133-49
Date Sampled			03/29/2015	03/29/2015	03/29/2015	03/29/2015	03/29/2015
Date Prepared			03/31/2015	03/31/2015	03/31/2015	03/31/2015	03/31/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/01/2015	04/01/2015	04/01/2015	04/01/2015	04/01/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	2.64	2.68	2.69	2.89	2.93

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C2

Our Lab I.D.			76454.10	76454.11			
Client Sample I.D.			1501133-61	1501133-62			
Date Sampled			03/29/2015	03/29/2015			
Date Prepared			03/31/2015	03/31/2015			
Preparation Method			3050B	3050B			
Date Analyzed			04/01/2015	04/01/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	1.73	1.91			

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C2

Our Lab I.D.			76454.12				
Client Sample I.D.			1501133-68				
Date Sampled			03/29/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	14.7				

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C2

Our Lab I.D.			76454.13	76454.14	76454.15		
Client Sample I.D.			1501133-74	1501133-80	1501133-86		
Date Sampled			03/29/2015	03/29/2015	03/29/2015		
Date Prepared			03/31/2015	03/31/2015	03/31/2015		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			04/01/2015	04/01/2015	04/01/2015		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	1.64	1.58	2.57		

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			Method Blank	76454.16	76454.17	76454.18	76454.19
Client Sample I.D.				1501133-87	1501133-93	1501133-99	1501133-AF
Date Sampled				03/29/2015	03/29/2015	03/29/2015	03/29/2015
Date Prepared			03/31/2015	03/31/2015	03/31/2015	03/31/2015	03/31/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/01/2015	04/01/2015	04/01/2015	04/01/2015	04/01/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	2.30	2.42	2.05	1.78

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			76454.20	76454.21			
Client Sample I.D.			1501133-AL	1501133-AR			
Date Sampled			03/29/2015	03/29/2015			
Date Prepared			03/31/2015	03/31/2015			
Preparation Method			3050B	3050B			
Date Analyzed			04/01/2015	04/01/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	2.94	2.30			

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Page: **10**

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3

Our Lab I.D.			**76454.22**				
Client Sample I.D.			1501133-AX				
Date Sampled			03/29/2015				
Date Prepared			03/31/2015				
Preparation Method			3050B				
Date Analyzed			04/01/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.25	0.50	3.36				

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0331151C1

Our Lab I.D.			Method Blank	76454.23			
Client Sample I.D.				1501133-AY			
Date Sampled				03/29/2015			
Date Prepared			03/31/2015	03/31/2015			
Preparation Method			3005A	3005A			
Date Analyzed			04/01/2015	04/01/2015			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.0025	0.0250	ND	ND			

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QUALITY CONTROL RESULTS

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Page: **12**

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0331151C1; Dup or Spiked Sample: 76454.23; LCS: Clean Water; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	0.00	0.0100	0.0114	114	0.0100	0.0122	122	6.8	75-125	<15

QC Batch No: 0331151C1; Dup or Spiked Sample: 76454.23; LCS: Clean Water; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	0.0100	0.0102	102	0.0100	0.0103	103	<1	75-125	<15	

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Page: **13**

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C2; Dup or Spiked Sample: 76454.01; LCS: Clean Sand; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.92	1.00	2.59 M	67.0	1.00	2.68 M	76.0	12.6	75-125	<15

QC Batch No: 0331151C2; Dup or Spiked Sample: 76454.01; LCS: Clean Sand; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.965	96.5	1.00	0.920	92.0	4.8	75-125	<15	

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Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76454	03/31/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0331151C3; Dup or Spiked Sample: 76454.16; LCS: Clean Sand; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.30	1.00	3.18	88.0	1.00	3.06	76.0	14.6	75-125	<15

QC Batch No: 0331151C3; Dup or Spiked Sample: 76454.16; LCS: Clean Sand; QC Prepared: 03/31/2015; QC Analyzed: 04/01/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.940	94.0	1.00	1.01	101	7.2	75-125	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76454

SUBCONTRACT ORDER

Work Order: 1501133

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09473-RUSH TAT (RA)

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501133-01 / D5-0.5		Soil 76454.01	**03/29/15 08:34**	**Please report Arsenic.**
6020_SUB	**04/01/15 15:00**	09/25/15 08:34		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-07 / D6-0.5		**Soil**	**03/29/15 08:50**	76454.02
6020_SUB	**04/01/15 15:00**	09/25/15 08:50		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-13 / D7-0.5		**Soil**	**03/29/15 09:08**	76454.03
6020_SUB	**04/01/15 15:00**	09/25/15 09:08		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-19 / E1-0.5		**Soil**	**03/29/15 09:34**	76454.04
6020_SUB	**04/01/15 15:00**	09/25/15 09:34		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-25 / E2-0.5		**Soil**	**03/29/15 09:45**	76454.05
6020_SUB	**04/01/15 15:00**	09/25/15 09:45		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				

Released By	3/31/15 1221 Date	Sangita P Received By	3/31/15 1221 Date
Sangita P Released By	3/31/15 Date	Jean Lande Received By	03/31/15 1500 Date

3/30/15

ADVANCED TECHNOLOGY LABORATORIES

76454

SUBCONTRACT ORDER

Work Order: 1501133

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501133-31 / E3-0.5		**Soil**	**03/29/15 10:00**	76454.06
6020_SUB	**04/01/15 15:00**	09/25/15 10:00		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-37 / E4-0.5		**Soil**	**03/29/15 10:19**	76454.07
6020_SUB	**04/01/15 15:00**	09/25/15 10:19		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-43 / E5-0.5		**Soil**	**03/29/15 10:40**	76454.08
6020_SUB	**04/01/15 15:00**	09/25/15 10:40		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-49 / E6-0.5		**Soil**	**03/29/15 10:50**	76454.09
6020_SUB	**04/01/15 15:00**	09/25/15 10:50		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
~~**ATL Lab#: 1501133-55 / E7-0.5**~~		**Soil**	~~**03/29/15 11:03**~~	W 3/31/15
6020_SUB	**04/01/15 15:00**	09/25/15 11:03		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-61 / DUP1-0.5		**Soil**	**03/29/15 00:00**	76454.10
6020_SUB	**04/01/15 15:00**	09/25/15 00:00		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-62 / F1-0.5		**Soil**	**03/29/15 11:55**	76454.11
6020_SUB	**04/01/15 15:00**	09/25/15 11:55		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				

3/31/15 1221	Sample P	3/31/15 1221	
Released By	Date	Received By	Date
Sample P 3/31/15		Jean Jandl	03/31/15 1502
Released By	Date	Received By	Date

ADVANCED TECHNOLOGY LABORATORIES

76454

SUBCONTRACT ORDER

Work Order: 1501133

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501133-68 / F2-0.5		**Soil**	**03/29/15 12:18**	76454.12
6020_SUB	**04/01/15 15:00**	09/25/15 12:18		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-74 / F3-0.5		**Soil**	**03/29/15 12:35**	76454.13
6020_SUB	**04/01/15 15:00**	09/25/15 12:35		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-80 / F4-0.5		**Soil**	**03/29/15 12:50**	76454.14
6020_SUB	**04/01/15 15:00**	09/25/15 12:50		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-86 / DUP2-0.5		**Soil**	**03/29/15 00:00**	76454.15
6020_SUB	**04/01/15 15:00**	09/25/15 00:00		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-87 / F5-0.5		**Soil**	**03/29/15 13:15**	76454.16
6020_SUB	**04/01/15 15:00**	09/25/15 13:15		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-93 / F6-0.5		**Soil**	**03/29/15 13:25**	76454.17
6020_SUB	**04/01/15 15:00**	09/25/15 13:25		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-99 / F7-0.5		**Soil**	**03/29/15 13:42**	76454.18
6020_SUB	**04/01/15 15:00**	09/25/15 13:42		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				

Released By	3/31/15 1221 Date	Sangis P Received By	3/31/15 1221 Date
Sangis P Released By	3/31/15 Date	Jean Lavoie Received By	03/31/15 1500 Date

ADVANCED TECHNOLOGY LABORATORIES

76454

SUBCONTRACT ORDER

Work Order: 1501133

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501133-AF / G2-0.5		**Soil**	**03/29/15 14:00**	76454.19
6020_SUB	**04/01/15 15:00**	09/25/15 14:00		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-AL / G3-0.5		**Soil**	**03/29/15 14:23**	76454.20
6020_SUB	**04/01/15 15:00**	09/25/15 14:23		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-AR / G4-0.5		**Soil**	**03/29/15 14:42**	76454.21
6020_SUB	**04/01/15 15:00**	09/25/15 14:42		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-AX / DUP3-0.5		**Soil**	**03/29/15 00:00**	76454.22
6020_SUB	**04/01/15 15:00**	09/25/15 00:00		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-AY / EQ Blank		**Water**	**03/29/15 15:15**	76454.23
6020_SUB	**04/01/15 15:00**	09/25/15 15:15		
[Individual Metals by ICPMS]				
Poly HNO3 - 500mL				

Released By	3/31/15 1221 Date	Sargis P Received By	3/31/15 1221 Date
Sargis P Released By	3/31/15 Date	Jean Lasde Received By	03/31/15 1500 Date

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Attention: Rachelle Arada

Number of Pages 2
Date Received 04/01/2015
Date Reported 04/02/2015

Job Number	Order Date	Client
76463	04/01/2015	ATL

Project ID: 1501133
Project Name: PO# SC09473

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Advanced Technology Laboratories **3275 Walnut Avenue** **Signal Hill, CA 90755-5225**

Project ID: 1501133 **Date Received 04/01/2015** **Date Reported 04/02/2015**

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76463	04/01/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 04/01/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76463.01	1501133-55	03/29/2015	Soil	1
76463.02	1501133-AZ	03/29/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	04/02/2015	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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ANALYTICAL RESULTS

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Page: **2**

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76463	04/01/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0401151C1

Our Lab I.D.			Method Blank	76463.01	76463.02		
Client Sample I.D.				1501133-55	1501133-AZ		
Date Sampled				03/29/2015	03/29/2015		
Date Prepared			04/01/2015	04/01/2015	04/01/2015		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			04/02/2015	04/02/2015	04/02/2015		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	ND	2.53	4.19		

QUALITY CONTROL REPORT

QC Batch No: 0401151C1; Dup or Spiked Sample: 76465.01; LCS: Clean Sand; QC Prepared: 04/01/2015; QC Analyzed: 04/02/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.32	1.00	4.57 #	225	1.00	4.14 #	182	21.1	80-120	<15

QC Batch No: 0401151C1; Dup or Spiked Sample: 76465.01; LCS: Clean Sand; QC Prepared: 04/01/2015; QC Analyzed: 04/02/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	1.08	108	1.00	1.08	108	<1	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76463

SUBCONTRACT ORDER

Work Order: 1501133

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)

RECEIVING LABORATORY:

AETL
2834 North Naomi Street
Burbank, CA 91504
Phone :(818) 845-8200
Fax: (818) 845-8840
PO#: SC09473-RUSH TAT (RA)

IMPORTANT : Please include Work **Order # and PO # in your invoice.**

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501133-55 / E7-0.5 76463.01	**Soil**		**03/29/15 11:03**	Please report Arsenic
6020_SUB	04/01/15 15:00	09/25/15 11:03		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				
ATL Lab#: 1501133-AZ / G5-0.5 76463.02	**Soil**		**03/29/15 00:00**	**Please report Arsenic**
6020_SUB	**04/02/15 15:00**	09/25/15 00:00		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				

Released By	Date	Received By	Date
[signature]	4/1/15 1132	Sargisp	4/1/15 1132
Sargisp	4/1/15 1310	[signature]	04/01/15 [illegible]

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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 3
Date Received 04/02/2015
Date Reported 04/03/2015

Job Number	Order Date	Client
76489	04/02/2015	ATL

Project ID: 1501133
Project Name: PO# SC09473

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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Ordered By

Advanced Technology Laboratories **3275 Walnut Avenue** **Signal Hill, CA 90755-5225**	**Project ID: 1501133** **Date Received 04/02/2015** **Date Reported 04/03/2015**

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76489	04/02/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 04/02/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76489.01	1501133-69	03/29/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	04/03/2015	2	Rush	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76489	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			04/03/2015				
Preparation Method			3050B				
Date Analyzed			04/03/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

QUALITY CONTROL REPORT

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.11	5.00	8.91	116	5.00	9.11	120	3.39	80-120	<15

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.868	86.8	1.00	0.945	94.5	8.49	80-120	<15	

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 3

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76489	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C2

Our Lab I.D.			76489.01				
Client Sample I.D.			1501133-69				
Date Sampled			03/29/2015				
Date Prepared			04/03/2015				
Preparation Method			3050B				
Date Analyzed			04/03/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			25				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	1.25	2.50	17.4				

QUALITY CONTROL REPORT

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.11	5.00	8.91	116	5.00	9.11	120	3.39	80-120	<15

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.868	86.8	1.00	0.945	94.5	8.49	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76489

SUBCONTRACT ORDER

Work Order: 1501133

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09473-RUSH TAT (RA)

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
[redacted]				Please report Arsenic.
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 08:34		
[redacted]				
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 08:50		
[redacted]				
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 09:08		
[redacted]				
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 09:34		
[redacted]				
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 09:45		

Released By	Date	Received By	Date
[signature]	4/1/15 1402	[signature]	4/2/15 1408
[signature]	4/2/15	[signature]	04/02/15 1615

ADVANCED TECHNOLOGY LABORATORIES

76489

SUBCONTRACT ORDER

Work Order: 1501133

Analysis	Due	Expires	Sampled	Comments
[redacted]		Soil	[redacted]	
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 12:18		
ATL Lab#: 1501133-69 / F2-1		**Soil**	**03/29/15 12:18**	**Report Arsenic only**
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**04/03/15 12:00**	09/25/15 12:18		
[redacted]		Soil	[redacted]	
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 12:35		
[redacted]		Soil	[redacted]	
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 12:50		
[redacted]		Soil	**03/29/15 00:00**	
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 00:00		
[redacted]		Soil	[redacted]	
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 13:15		
[redacted]		Soil	[redacted]	
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 4 oz	**04/01/15 15:00**	09/25/15 13:25		

Released By	Date	Received By	Date
[signature]	4/2/15 1408	Sargis-P	4/2/15 1408
Sargis-P	4/2/15	Jean Claude	04/02/15 1615

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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 3
Date Received 04/08/2015
Date Reported 04/09/2015

Job Number	Order Date	Client
76540	04/08/2015	ATL

Project ID: 1501133
Project Name: PO# SC09473

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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Ordered By

Advanced Technology Laboratories **3275 Walnut Avenue** **Signal Hill, CA 90755-5225**	**Project ID: 1501133** **Date Received 04/08/2015** **Date Reported 04/09/2015**

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76540	04/08/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 04/08/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76540.01	1501133-70	03/29/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	04/15/2015	2	Normal	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76540	04/08/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0408151C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			04/08/2015				
Preparation Method			3050B				
Date Analyzed			04/08/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

QUALITY CONTROL REPORT

QC Batch No: 0408151C1; Dup or Spiked Sample: 76542.01; LCS: Clean Sand; QC Prepared: 04/08/2015; QC Analyzed: 04/08/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.46	10.0	13.2	107	10.0	13.2	107	<1	80-120	<15

QC Batch No: 0408151C1; Dup or Spiked Sample: 76542.01; LCS: Clean Sand; QC Prepared: 04/08/2015; QC Analyzed: 04/08/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	1.05	105	1.00	1.04	104	<1	80-120	<15	

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 3

Project ID: 1501133
Project Name: PO# SC09473

AETL Job Number	Submitted	Client
76540	04/08/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0408151C1

Our Lab I.D.			76540.01				
Client Sample I.D.			1501133-70				
Date Sampled			03/29/2015				
Date Prepared			04/08/2015				
Preparation Method			3050B				
Date Analyzed			04/08/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	2.95				

QUALITY CONTROL REPORT

QC Batch No: 0408151C1; Dup or Spiked Sample: 76542.01; LCS: Clean Sand; QC Prepared: 04/08/2015; QC Analyzed: 04/08/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.46	10.0	13.2	107	10.0	13.2	107	<1	80-120	<15

QC Batch No: 0408151C1; Dup or Spiked Sample: 76542.01; LCS: Clean Sand; QC Prepared: 04/08/2015; QC Analyzed: 04/08/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	1.05	105	1.00	1.04	104	<1	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
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M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76540

SUBCONTRACT ORDER

Work Order: 1501133

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)

RECEIVING LABORATORY:

AETL
2834 North Naomi Street
Burbank, CA 91504
Phone :(818) 845-8200
Fax: (818) 845-8840
PO#: SC09473-STANDARD TAT RA

IMPORTANT : Please include Work **Order # and PO # in your invoice.**

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501133-70 / F2-1.5		**Soil**	**03/29/15 12:18**	**Please report Arsenic.**
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**04/14/15 17:00**	09/25/15 12:18	76540.01	

Released By _____ Date 4/8/15 1140 Received By _____ Date 4/8/15 1140

Released By _____ Date 4/8/15 1250 Received By Jeanclaude Date 4/08/15 1250

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 3250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Ste 3250
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis (6); Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis (4)
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
TAT | Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister | Material: 1=Glass; 2=Plastic; 3=Metal | Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3
QA/QC: Routine, Caltrans, Legal, RWQCB Level IV
REMARKS

ITEM	Lab No.	Sample ID / Location	Date	Time	TAT	#	Remarks
1	150 1133 - 1	DS-0.5	3/29/15	8:34	2	1	
2	-2	DS-1				1	HOLD
3	-3	DS-1.5				1	
4	-4	DS-2				1	
5	-5	DS-2.5				1	
6	-6	DS-3		↓		1	↓
7	-7	DLe-0.5		8:50	2	1	
8	-8	DLe-1				1	HOLD
9	-9	DLe-1.5				1	
10	-10	DLe-2	↓	↓		1	↓

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.
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   - 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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			ECR Eduard Rodriguez	3-30-15	1230
ECR Eduard Rodriguez	3-30-15	1310	FROMA	3/30/15	1310

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page 2 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (V0A)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: / Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: / State: / Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Weeks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3
QA/QC: Routine / Caltrans / Legal / RWQCB Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Soil	TAT	#	REMARKS
1	1501133 -1	D10-2.5	3/29/15	8:50	X	X						-	1	HOLD
2	-2	D10-3		↓	X	X							1	↓
3	-3	D7-0.5		9:08	X	X						2	1	
4	-4	D7-1			X	X	LW						1	HOLD
5	-5	D7-1.5			X	X							1	↓
6	-6	D7-2			X	X							1	
7	-7	D7-2.5			X	X							1	
8	-8	D7-3		↓	X	X							1	↓
9	-9	E1-0.5		9:34	X	X						2	1	
10	-10	E1-1	↓	↓	X	X							1	HOLD

TERMS

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

John Gonzales — Submitter Print Name / Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
ECR Edward Rodriguez	3-30-15	1230	ECR Edward Rodriguez	3-30-15	1230
ECR Edward Rodriguez	3-30-15	1310	FEDEX	3/30/15	1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y	N	Condition	Y	N
Client / ATL		1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx / OnTrac		2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250			Tel: (213) 213-9400
		City: Los Angeles	State: CA	Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: / Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA / Zip: 90017	City: / State: / Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOCs and Oxygenates (8260); VOC's (8260); Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

TAT

Container: # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine / Caltrans / Legal / RWQCB Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Soil	TAT	#	REMARKS
1	1501137-11	E1-1.5	3/29/15	9:34	X	X							1	HOLD
2	-12	E1-2			X	X							1	
3	-13	E1-2.5			X	X							1	
4	-14	E1-3			X	X							1	
5	-15	E2-0.5		9:45	X	X						2	1	
6	-16	E2-1			X	X							1	HOLD
7	-17	E2-1.5			X	X							1	
8	-18	E2-2			X	X							1	
9	-19	E2-2.5			X	X							1	
10	-20	E2-3			X	X							1	

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John Gonzales — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) ECR Edward Rodriguez	Date: 3-30-15	Time: 1230
Relinquished by: (Signature and Printed Name) ECR Edward Rodriguez	Date: 3-30-15	Time: 1310	Received by: (Signature and Printed Name) FEDEX	Date: 3/30/15	Time: 1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 21 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver:20130715			
Method of Transport		Sample Conditions Upon Receipt			
		Condition	Y	N	Condition	Y	N
Client / ATL		1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx / OnTrac		2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Works
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	1501183 - 31	EB-0.5	3/29/15	10:00
2	- 32	EB-1		
3	- 33	EB-1.5		
4	- 34	EB-2		
5	- 35	EB-2.5		
6	- 36	EB-3		
7	- 37	EH-0.5	10:19	
8	- 38	EH-1		
9	- 39	EH-1.5		
10	- 40	EH-2		

Encircle or Write Requested Analysis

Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOCs (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								
X	X	X	X	X	X			X	X								

Encircle Sample Matrix

Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix
X					
X					
X					
X					
X					
X					
X					
X					
X					
X					

TAT	Container #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
2	1				
	1				HOLD
	1				
	1				
	1				
	1				
2	1				
	1				HOLD
	1				
	1				

QA/QC: Routine / Caltrans / Legal / RWQCB Level IV

TERMS

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John Gonzales — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			Edward Rodriguez	3-30-15	1230
Edward Rodriguez	3-30-15	1310	PPOMA	3/30/15	1310

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page 5 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y	N
Client	ATL	1. CHILLED		5. # OF SAMPLES MATCH COC
FedEx	OnTrac	2. HEADSPACE (V0A)		6. PRESERVED
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:
Other:		4. SEALED		

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400	
		City: Los Angeles	State: CA	Zip: 90017	Fax:
SEND REPORT TO:			SEND INVOICE TO:		same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com		Attn:	Email:	
Company: TRC			Company:		
Address: 707 Wilshire Blvd. Ste 3250			Address:		
City: Los Angeles	State: CA	Zip: 90017	City:	State:	Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wicks
Quote #:
PO #:
Special Instructions/Comments:

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Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

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QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	REMARKS
1	1501133-41	EH-2.5	3/29/15	10:19	HOLD
2	-42	EH-3	↓	↓	↓
3	-43	E5-0.5		10:40	
4	-44	E5-1			HOLD
5	-45	E5-1.5			↓
6	-46	E5-2			
7	-47	E5-2.5			
8	-48	E5-3		↓	
9	-49	E10-0.5		10:50	
10	-50	E10-1	↓	↓	HOLD

TERMS

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   - 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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			ELK Edward Rodriguez	3-30-15	1230
ELK Edward Rodriguez	3-30-15	1310		3/30/15	1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver:20130715			
Method of Transport		Sample Conditions Upon Receipt			
		Condition	Y	N	Condition	Y	N
Client / ATL		1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx / OnTrac		2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	15011 33 -57	E6-1.5	3/29/15	10:50									X	X																1				HOLD
2	-52	E6-2											X	X																1				
3	-53	E6-2.5											X	X																1				
4	-54	E6-3											X																	1				
5	-55	E7-0.5		11:03									X	X	X														2	1				
6	-56	E7-1											X	X	X															1				HOLD
7	-57	E7-1.5											X	X	X															1				
8	-58	E7-2											X	X	X															1				
9	-59	E7-2.5											X	X	X															1				
10	-60	E7-3											X	X	X															1				

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

Material: 1=Glass; 2=Plastic; 3=Metal

Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister

TERMS

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			ATL Edward Rodriguez	3-30-15	1230
Edward Rodriguez	3-30-15	1310	FEDEX	3/30/15	1310

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 7 of 12

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

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	City: Los Angeles	State: CA Zip: 90017	Fax:

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Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn:	Email:
Company: TRC		Company:	
Address: 707 Wilshire Blvd. Ste 3250		Address:	
City: Los Angeles	State: CA Zip: 90017	City:	State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis / Encircle Sample Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Soil	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1	1501133 -01	DUP1 - 0.5	3/29/15	—	X	X	X					2	1				
2	-02	F1 - 0.5		11:55	X	X	X					2	1				
3	-03	F1 - 1			X	X	X						1				HOLD
4	-04	F1 - 1.5			X	X	X						1				
5	-05	F1 - 2			X	X	X						1				
6	-06	F1 - 2.5			X	X	X						1				
7	-07	F1 - 3			X	X	X						1				
8	-08	F2 - 0.5		12:18	X	X						2	1				
9	-09	F2 - 1			X	X							1				HOLD
10	-10	F2 - 1.5			X	X							1				

TERMS

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John Gonzales — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			ECL Edward Rodriguez	3-30-15	1230
ECL Edward Rodriguez	3-30-15	1310	[signature]	3/30/15	1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 8 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
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SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
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Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis

Encircle Sample Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	15011133-71	FZ-2	3/29/15	12:18									X	X																1				HOLD	
2	-72	FZ-2.5											X	X																1					
3	-73	FZ-3											X	X																1					
4	-74	FZ-0.5		12:35									X	X															2	1					
5	-75	FZ-1											X	X																1				HOLD	
6	-76	FZ-1.5											X	X																1					
7	-77	FZ-2											X	X																1					
8	-78	FZ-2.5											X	X																1					
9	-79	FZ-3											X	X																1					
10	-80	FZ-0.5		12:50									X	X															2	1					

TERMS

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John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			Edward Rodriguez	3-30-15	1230
Edward Rodriguez	3-30-15	1310		3/30/15	1310

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 0 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y	N
Client	ATL	1. CHILLED		
FedEx	OnTrac	2. HEADSPACE (VOA)		
GSO		3. CONTAINER INTACT		
Other:		4. SEALED		

Condition	Y	N
5. # OF SAMPLES MATCH COC		
6. PRESERVED		
7. COOLER TEMP, deg C:		

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250			Tel: (213) 213-9400
		City: Los Angeles	State: CA	Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wicks
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	1501132-81	FH-1	3/29/15	12:50
2	-82	FH-1.5		
3	-83	FH-2		
4	-84	FH-2.5		
5	-85	FH-3		
6	-86	DUP 2-0.5		—
7	-87	FG-0.5		13:15
8	-88	FG-1		
9	-89	FG-1.5		
10	-90	FG-2		

Encircle or Write Requested Analysis

Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis
								X	X								
								X	X								
								X	X								
								X	X								
								X	X								
								X	X								
								X	X								
								X	X								
								X	X								
								X	X								

Encircle Sample Matrix

Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix

TAT	Container #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
	1				HOLD
	1				
	1				
	1				
	1				
7	1				
2	1				
	1				HOLD
	1				
	1				

QA/QC
Routine
Caltrans
Legal
RWQCB
Level IV

TERMS

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John Gonzales
Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			ELR Edward Rodriguez	3-30-15	1230
ELR Edward Rodriguez	3-30-15	1310		3/30/15	1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

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3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page 10 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

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City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOCs and Oxygenates (8260); VOC's (8260); Enter Custom Analysis ×4

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample ID / Location	Date	Time	TAT	Container #	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	1501133 - 91	FG-2.5	3/29/15	13:15		1				Routine	HOLD
2	-92	FG-3		↓		1				Caltrans	↓
3	-93	FE-0.5		13:26	2	1				Legal	
4	-94	FE-1				1				RWQCB	HOLD
5	-95	FE-1.5				1				Level IV	↓
6	-96	FE-2				1					
7	-97	FE-2.5				1					
8	-98	FE-3		↓		1					↓
9	-99	FF-0.5		13:42	2	1					
10	-100	FF-1	↓	↓		1					HOLD

TERMS

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Submitter Print Name — Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1				ECR Edward Rodriguez	3-30-15	1230
2	ECR Edward Rodriguez	3-30-15	1310		3/30/15	1310
3						

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 11 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only		ATLCOC Ver:20130715
Method of Transport	Sample Conditions Upon Receipt	
	Condition Y N	Condition Y N
Client ATL	1. CHILLED	5. # OF SAMPLES MATCH COC
FedEx OnTrac	2. HEADSPACE (VOA)	6. PRESERVED
GSO	3. CONTAINER INTACT	7. COOLER TEMP, deg C:
Other:	4. SEALED	

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400	
		City: Los Angeles	State: CA Zip: 90017	Fax:	
SEND REPORT TO:			SEND INVOICE TO:		same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com		Attn:	Email:	
Company: TRC			Company:		
Address: 707 Wilshire Blvd. Ste 3250			Address:		
City: Los Angeles	State: CA Zip: 90017		City:	State:	Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Weeks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCP's (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1501133 - AB	F7-1.5	3/29/15	13:42									X	X																1				HOLD
2	- AC	F7-2											X	X																1				
3	- AD	F7-2.5											X	X																1				
4	- AE	F7-3											X	X																1				
5	- AF	G2-0.5		14:00									X	X															2	1				
6	- AG	G2-1											X	X																1				HOLD
7	- AH	G2-1.5											X	X																1				
8	- AI	G2-2											X	X																1				
9	- AJ	G2-2.5											X	X																1				
10	- AK	G2-3											X	X																1				

TERMS

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   - 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)
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8. Hard copy reports will be disposed of after 45 calendar days from report date.
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   - 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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			ELIZ Edward Rodriguez	3-30-15	1230
ELIZ Edward Rodriguez	3-30-15	1310	Fedex	3/30/15	1310
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 12 of 13

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company:	TRC	Address:	707 Wilshire Blvd. Ste 3250	Tel:	(213) 213-9400
		City:	Los Angeles	State: CA	Zip: 90017 Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn:	John Gonzales	Attn:
Email:	jgonzales@trcsolutions.com	Email:
Company:	TRC	Company:
Address:	707 Wilshire Blvd. Ste 3250	Address:
City:	Los Angeles	City:
State:	CA	State:
Zip:	90017	Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis

Encircle Sample Matrix

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Soil	TAT	Container #	QA/QC / REMARKS
1	1501137-AL	GB-0.5	3/29/15	14:23	X	X						2	1	
2	-AM	GB-1			X	X							1	HOLD
3	-AN	GB-1.5			X	X							1	
4	-AO	GB-2			X	X							1	
5	-AP	GB-2.5			X	X							1	
6	-AQ	GB-3			X	X							1	
7	-AR	GH-0.5		14:42	X	X						2	1	
8	-AS	GH-1			X	X							1	HOLD
9	-AT	GH-1.5			X	X							1	
10	-AU	GH-2			X	X							1	

Select Analysis; Enter Custom Analysis; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister. Material: 1=Glass; 2=Plastic; 3=Metal. Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine, Caltrans, Legal, RWQCB Level IV

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John Gonzales — Submitter Print Name | Signature

CUSTODY

	Date	Time		Date	Time
Relinquished by: (Signature and Printed Name)			Received by: (Signature and Printed Name) ECR Edward Rodriguez	3-30-15	1230
Relinquished by: (Signature and Printed Name) ECR Edward Rodriguez	3-30-15	1310	Received by: (Signature and Printed Name) FEDEX	3/30/15	1310
Relinquished by: (Signature and Printed Name)			Received by: (Signature and Printed Name)		

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 13 of 13

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For Laboratory Use Only				ATLCOC Ver:20130715
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FedEx	OnTrac	2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400	
		City: Los Angeles	State: CA	Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO	
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn:	Email:
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Address: 707 Wilshire Blvd. Ste 3250		Address:	
City: Los Angeles	State: CA Zip: 90017	City:	State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container | QA/QC

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1801133-AV	GH-2.5	3/29/15	14:42									X	X																1				HOLD
2	-AW	GH-3	↓	↓									X	X	X															1				↓
3	-AX	DUP 3-0.5	↓	—									X	X															2	1				
4	-AY	EQ Blank	3/29/15	1585									X	X	X														5	2	3	1L		
5																														1				
6																														1				
7																														1				
8																														1				
9																														1				
10																														1				

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			Edward Rodriguez	3-30-15	1234
Relinquished by: (Signature and Printed Name) Edward Rodriguez	Date: 3-30-15	Time: 1310	Received by: (Signature and Printed Name)	Date: 3/30/15	Time: 1315
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

April 07, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501144

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on March 31, 2015 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,

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

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SG-2-5'	1501144-04	Soil	3/31/15 8:38	3/31/15 12:30
SG-2-10'	1501144-05	Soil	3/31/15 8:48	3/31/15 12:30
SG-2-15'	1501144-06	Soil	3/31/15 9:00	3/31/15 12:30
SG-1-10'	1501144-07	Soil	3/31/15 8:15	3/31/15 12:30
SG-1-15'	1501144-08	Soil	3/31/15 8:25	3/31/15 12:30
SG-1-0.5	1501144-09	Soil	3/31/15 7:50	3/31/15 12:30
SG-1-5'	1501144-15	Soil	3/31/15 7:50	3/31/15 12:30
SG-2-0.5	1501144-16	Soil	3/31/15 8:38	3/31/15 12:30
BD24-N0.5	1501144-25	Soil	3/31/15 10:30	3/31/15 12:30
BD23-E0.5	1501144-29	Soil	3/31/15 8:25	3/31/15 12:30
BD23-S0.5	1501144-35	Soil	3/31/15 8:50	3/31/15 12:30
BD23-S2.5	1501144-39	Soil	3/31/15 8:53	3/31/15 12:30
Dup4-0.5	1501144-41	Soil	3/31/15 0:00	3/31/15 12:30
BD24-S0.5	1501144-42	Soil	3/31/15 8:39	3/31/15 12:30
BD24-W0.5	1501144-48	Soil	3/31/15 8:29	3/31/15 12:30
BD24-E0.5	1501144-54	Soil	3/31/15 11:55	3/31/15 12:30
BD24-(N,E,S,W)-0.5	1501144-58	Soil	3/31/15 0:00	3/31/15 12:30
Dup5	1501144-59	Soil	3/31/15 0:00	3/31/15 12:30

CASE NARRATIVE

The samples for EPA 6020 analysis were subcontracted to AETL with DOHS Cert.#1541.

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-5'

Lab ID: 1501144-04

Gasoline Range Organics by EPA 8015B (Modified) (5035)

Analyst: BT/

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.89	1	B5D0010	04/01/2015	04/02/15 16:39	
Surrogate: 4-Bromofluorobenzene *116 %*		*56 - 165*		B5D0010	04/01/2015	*04/02/15 16:39*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	10	1	B5D0043	04/02/2015	04/02/15 11:35	
ORO	ND	10	1	B5D0043	04/02/2015	04/02/15 11:35	
Surrogate: p-Terphenyl *101 %*		*49 - 142*		B5D0043	04/02/2015	*04/02/15 11:35*	

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: AG

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,1,1-Trichloroethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,1,2,2-Tetrachloroethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,1,2-Trichloroethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,1-Dichloroethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,1-Dichloroethene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,1-Dichloropropene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2,3-Trichloropropane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2,3-Trichlorobenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2,4-Trichlorobenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2,4-Trimethylbenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2-Dibromo-3-chloropropane	ND	9.3	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2-Dibromoethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2-Dichlorobenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2-Dichloroethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,2-Dichloropropane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,3,5-Trimethylbenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,3-Dichlorobenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,3-Dichloropropane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
1,4-Dichlorobenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
2,2-Dichloropropane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
2-Chlorotoluene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-5'

Lab ID: 1501144-04

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
4-Isopropyltoluene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Benzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Bromobenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Bromochloromethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Bromodichloromethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Bromoform	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Bromomethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Carbon disulfide	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Carbon tetrachloride	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Chlorobenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Chloroethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Chloroform	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Chloromethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
cis-1,2-Dichloroethene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
cis-1,3-Dichloropropene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Di-isopropyl ether	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Dibromochloromethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Dibromomethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Dichlorodifluoromethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Ethyl Acetate	ND	47	1	B5D0001	04/01/2015	04/01/15 19:42	
Ethyl Ether	ND	47	1	B5D0001	04/01/2015	04/01/15 19:42	
Ethyl tert-butyl ether	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Ethylbenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Freon-113	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Hexachlorobutadiene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Isopropylbenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
m,p-Xylene	ND	9.3	1	B5D0001	04/01/2015	04/01/15 19:42	
Methylene chloride	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
MTBE	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
n-Butylbenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
n-Propylbenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Naphthalene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
o-Xylene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
sec-Butylbenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Styrene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
tert-Amyl methyl ether	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-5'

Lab ID: 1501144-04

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	93	1	B5D0001	04/01/2015	04/01/15 19:42	
tert-Butylbenzene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Tetrachloroethene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Toluene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
trans-1,2-Dichloroethene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
trans-1,3-Dichloropropene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Trichloroethene	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Trichlorofluoromethane	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Vinyl acetate	ND	47	1	B5D0001	04/01/2015	04/01/15 19:42	
Vinyl chloride	ND	4.7	1	B5D0001	04/01/2015	04/01/15 19:42	
Surrogate: 1,2-Dichloroethane-d4	*96.7 %*	*20 - 189*		B5D0001	04/01/2015	*04/01/15 19:42*	
Surrogate: 4-Bromofluorobenzene	*97.6 %*	*20 - 173*		B5D0001	04/01/2015	*04/01/15 19:42*	
Surrogate: Dibromofluoromethane	*96.2 %*	*26 - 178*		B5D0001	04/01/2015	*04/01/15 19:42*	
Surrogate: Toluene-d8	*95.9 %*	*31 - 166*		B5D0001	04/01/2015	*04/01/15 19:42*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-10'

Lab ID: 1501144-05

Gasoline Range Organics by EPA 8015B (Modified) (5035)

Analyst: BT/

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		ND	1.1	1	B5D0010	04/01/2015	04/02/15 16:55	
Surrogate: 4-Bromofluorobenzene	*98.7 %*		*56 - 165*		B5D0010	04/01/2015	*04/02/15 16:55*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		ND	10	1	B5D0043	04/02/2015	04/02/15 11:52	
ORO		ND	10	1	B5D0043	04/02/2015	04/02/15 11:52	
Surrogate: p-Terphenyl	*98.9 %*		*49 - 142*		B5D0043	04/02/2015	*04/02/15 11:52*	

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: AG

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,1,1-Trichloroethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,1,2,2-Tetrachloroethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,1,2-Trichloroethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,1-Dichloroethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,1-Dichloroethene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,1-Dichloropropene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2,3-Trichloropropane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2,3-Trichlorobenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2,4-Trichlorobenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2,4-Trimethylbenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2-Dibromo-3-chloropropane	ND	10	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2-Dibromoethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2-Dichlorobenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2-Dichloroethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,2-Dichloropropane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,3,5-Trimethylbenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,3-Dichlorobenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,3-Dichloropropane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
1,4-Dichlorobenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
2,2-Dichloropropane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
2-Chlorotoluene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-10'

Lab ID: 1501144-05

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
4-Isopropyltoluene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Benzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Bromobenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Bromochloromethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Bromodichloromethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Bromoform	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Bromomethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Carbon disulfide	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Carbon tetrachloride	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Chlorobenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Chloroethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Chloroform	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Chloromethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
cis-1,2-Dichloroethene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
cis-1,3-Dichloropropene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Di-isopropyl ether	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Dibromochloromethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Dibromomethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Dichlorodifluoromethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Ethyl Acetate	ND	51	1	B5D0001	04/01/2015	04/01/15 20:01	
Ethyl Ether	ND	51	1	B5D0001	04/01/2015	04/01/15 20:01	
Ethyl tert-butyl ether	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Ethylbenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Freon-113	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Hexachlorobutadiene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Isopropylbenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
m,p-Xylene	ND	10	1	B5D0001	04/01/2015	04/01/15 20:01	
Methylene chloride	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
MTBE	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
n-Butylbenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
n-Propylbenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Naphthalene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
o-Xylene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
sec-Butylbenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Styrene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
tert-Amyl methyl ether	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-10'

Lab ID: 1501144-05

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	1	B5D0001	04/01/2015	04/01/15 20:01	
tert-Butylbenzene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Tetrachloroethene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Toluene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
trans-1,2-Dichloroethene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
trans-1,3-Dichloropropene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Trichloroethene	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Trichlorofluoromethane	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Vinyl acetate	ND	51	1	B5D0001	04/01/2015	04/01/15 20:01	
Vinyl chloride	ND	5.1	1	B5D0001	04/01/2015	04/01/15 20:01	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*20 - 189*		B5D0001	04/01/2015	*04/01/15 20:01*	
Surrogate: 4-Bromofluorobenzene	*99.3 %*	*20 - 173*		B5D0001	04/01/2015	*04/01/15 20:01*	
Surrogate: Dibromofluoromethane	*99.9 %*	*26 - 178*		B5D0001	04/01/2015	*04/01/15 20:01*	
Surrogate: Toluene-d8	*101 %*	*31 - 166*		B5D0001	04/01/2015	*04/01/15 20:01*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-15'

Lab ID: 1501144-06

Gasoline Range Organics by EPA 8015B (Modified) (5035)

Analyst: BT/

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.86	1	B5D0010	04/01/2015	04/02/15 17:10	
Surrogate: 4-Bromofluorobenzene *121 %*		*56 - 165*		B5D0010	04/01/2015	*04/02/15 17:10*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	10	1	B5D0043	04/02/2015	04/02/15 12:09	
ORO	ND	10	1	B5D0043	04/02/2015	04/02/15 12:09	
Surrogate: p-Terphenyl *92.9 %*		*49 - 142*		B5D0043	04/02/2015	*04/02/15 12:09*	

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: AG

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,1,1-Trichloroethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,1,2,2-Tetrachloroethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,1,2-Trichloroethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,1-Dichloroethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,1-Dichloroethene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,1-Dichloropropene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2,3-Trichloropropane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2,3-Trichlorobenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2,4-Trichlorobenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2,4-Trimethylbenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2-Dibromo-3-chloropropane	ND	8.9	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2-Dibromoethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2-Dichlorobenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2-Dichloroethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,2-Dichloropropane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,3,5-Trimethylbenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,3-Dichlorobenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,3-Dichloropropane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
1,4-Dichlorobenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
2,2-Dichloropropane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
2-Chlorotoluene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-15'

Lab ID: 1501144-06

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
4-Isopropyltoluene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Benzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Bromobenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Bromochloromethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Bromodichloromethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Bromoform	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Bromomethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Carbon disulfide	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Carbon tetrachloride	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Chlorobenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Chloroethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Chloroform	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Chloromethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
cis-1,2-Dichloroethene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
cis-1,3-Dichloropropene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Di-isopropyl ether	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Dibromochloromethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Dibromomethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Dichlorodifluoromethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Ethyl Acetate	ND	44	1	B5D0001	04/01/2015	04/01/15 20:19	
Ethyl Ether	ND	44	1	B5D0001	04/01/2015	04/01/15 20:19	
Ethyl tert-butyl ether	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Ethylbenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Freon-113	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Hexachlorobutadiene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Isopropylbenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
m,p-Xylene	ND	8.9	1	B5D0001	04/01/2015	04/01/15 20:19	
Methylene chloride	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
MTBE	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
n-Butylbenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
n-Propylbenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Naphthalene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
o-Xylene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
sec-Butylbenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Styrene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
tert-Amyl methyl ether	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-2-15'

Lab ID: 1501144-06

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	89	1	B5D0001	04/01/2015	04/01/15 20:19	
tert-Butylbenzene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Tetrachloroethene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Toluene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
trans-1,2-Dichloroethene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
trans-1,3-Dichloropropene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Trichloroethene	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Trichlorofluoromethane	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Vinyl acetate	ND	44	1	B5D0001	04/01/2015	04/01/15 20:19	
Vinyl chloride	ND	4.4	1	B5D0001	04/01/2015	04/01/15 20:19	
Surrogate: 1,2-Dichloroethane-d4	*97.7 %*	*20 - 189*		B5D0001	04/01/2015	*04/01/15 20:19*	
Surrogate: 4-Bromofluorobenzene	*97.4 %*	*20 - 173*		B5D0001	04/01/2015	*04/01/15 20:19*	
Surrogate: Dibromofluoromethane	*99.5 %*	*26 - 178*		B5D0001	04/01/2015	*04/01/15 20:19*	
Surrogate: Toluene-d8	*96.0 %*	*31 - 166*		B5D0001	04/01/2015	*04/01/15 20:19*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-10'

Lab ID: 1501144-07

Gasoline Range Organics by EPA 8015B (Modified) (5035)

Analyst: BT/

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	0.80	1	B5D0010	04/01/2015	04/02/15 17:26	
Surrogate: 4-Bromofluorobenzene *108 %*		*56 - 165*		B5D0010	04/01/2015	*04/02/15 17:26*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	10	1	B5D0043	04/02/2015	04/02/15 12:27	
ORO	ND	10	1	B5D0043	04/02/2015	04/02/15 12:27	
Surrogate: p-Terphenyl *90.1 %*		*49 - 142*		B5D0043	04/02/2015	*04/02/15 12:27*	

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: AG

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,1,1-Trichloroethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,1,2,2-Tetrachloroethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,1,2-Trichloroethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,1-Dichloroethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,1-Dichloroethene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,1-Dichloropropene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2,3-Trichloropropane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2,3-Trichlorobenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2,4-Trichlorobenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2,4-Trimethylbenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2-Dibromo-3-chloropropane	ND	8.4	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2-Dibromoethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2-Dichlorobenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2-Dichloroethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,2-Dichloropropane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,3,5-Trimethylbenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,3-Dichlorobenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,3-Dichloropropane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
1,4-Dichlorobenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
2,2-Dichloropropane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
2-Chlorotoluene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-10'

Lab ID: 1501144-07

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
4-Isopropyltoluene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Benzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Bromobenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Bromochloromethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Bromodichloromethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Bromoform	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Bromomethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Carbon disulfide	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Carbon tetrachloride	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Chlorobenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Chloroethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Chloroform	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Chloromethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
cis-1,2-Dichloroethene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
cis-1,3-Dichloropropene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Di-isopropyl ether	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Dibromochloromethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Dibromomethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Dichlorodifluoromethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Ethyl Acetate	ND	42	1	B5D0037	04/02/2015	04/02/15 09:59	
Ethyl Ether	ND	42	1	B5D0037	04/02/2015	04/02/15 09:59	
Ethyl tert-butyl ether	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Ethylbenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Freon-113	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Hexachlorobutadiene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Isopropylbenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
m,p-Xylene	ND	8.4	1	B5D0037	04/02/2015	04/02/15 09:59	
Methylene chloride	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
MTBE	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
n-Butylbenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
n-Propylbenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Naphthalene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
o-Xylene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
sec-Butylbenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Styrene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
tert-Amyl methyl ether	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-10'

Lab ID: 1501144-07

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	84	1	B5D0037	04/02/2015	04/02/15 09:59	
tert-Butylbenzene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Tetrachloroethene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Toluene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
trans-1,2-Dichloroethene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
trans-1,3-Dichloropropene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Trichloroethene	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Trichlorofluoromethane	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Vinyl acetate	ND	42	1	B5D0037	04/02/2015	04/02/15 09:59	
Vinyl chloride	ND	4.2	1	B5D0037	04/02/2015	04/02/15 09:59	
Surrogate: 1,2-Dichloroethane-d4	*93.8 %*	*20 - 189*		B5D0037	04/02/2015	*04/02/15 09:59*	
Surrogate: 4-Bromofluorobenzene	*94.9 %*	*20 - 173*		B5D0037	04/02/2015	*04/02/15 09:59*	
Surrogate: Dibromofluoromethane	*94.6 %*	*26 - 178*		B5D0037	04/02/2015	*04/02/15 09:59*	
Surrogate: Toluene-d8	*99.1 %*	*31 - 166*		B5D0037	04/02/2015	*04/02/15 09:59*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-15'

Lab ID: 1501144-08

Gasoline Range Organics by EPA 8015B (Modified) (5035)

Analyst: BT/

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.2	1	B5D0010	04/01/2015	04/02/15 17:42	
Surrogate: 4-Bromofluorobenzene *103 %*		*56 - 165*		B5D0010	04/01/2015	*04/02/15 17:42*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	10	1	B5D0043	04/02/2015	04/02/15 12:44	
ORO	ND	10	1	B5D0043	04/02/2015	04/02/15 12:44	
Surrogate: p-Terphenyl *97.0 %*		*49 - 142*		B5D0043	04/02/2015	*04/02/15 12:44*	

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: AG

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,1,1-Trichloroethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,1,2,2-Tetrachloroethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,1,2-Trichloroethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,1-Dichloroethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,1-Dichloroethene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,1-Dichloropropene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2,3-Trichloropropane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2,3-Trichlorobenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2,4-Trichlorobenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2,4-Trimethylbenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2-Dibromo-3-chloropropane	ND	11	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2-Dibromoethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2-Dichlorobenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2-Dichloroethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,2-Dichloropropane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,3,5-Trimethylbenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,3-Dichlorobenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,3-Dichloropropane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
1,4-Dichlorobenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
2,2-Dichloropropane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
2-Chlorotoluene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-15'

Lab ID: 1501144-08

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
4-Isopropyltoluene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Benzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Bromobenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Bromochloromethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Bromodichloromethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Bromoform	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Bromomethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Carbon disulfide	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Carbon tetrachloride	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Chlorobenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Chloroethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Chloroform	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Chloromethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
cis-1,2-Dichloroethene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
cis-1,3-Dichloropropene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Di-isopropyl ether	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Dibromochloromethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Dibromomethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Dichlorodifluoromethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Ethyl Acetate	ND	53	1	B5D0037	04/02/2015	04/02/15 10:18	
Ethyl Ether	ND	53	1	B5D0037	04/02/2015	04/02/15 10:18	
Ethyl tert-butyl ether	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Ethylbenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Freon-113	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Hexachlorobutadiene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Isopropylbenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
m,p-Xylene	ND	11	1	B5D0037	04/02/2015	04/02/15 10:18	
Methylene chloride	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
MTBE	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
n-Butylbenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
n-Propylbenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Naphthalene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
o-Xylene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
sec-Butylbenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Styrene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
tert-Amyl methyl ether	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-15'

Lab ID: 1501144-08

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	110	1	B5D0037	04/02/2015	04/02/15 10:18	
tert-Butylbenzene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Tetrachloroethene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Toluene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
trans-1,2-Dichloroethene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
trans-1,3-Dichloropropene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Trichloroethene	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Trichlorofluoromethane	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Vinyl acetate	ND	53	1	B5D0037	04/02/2015	04/02/15 10:18	
Vinyl chloride	ND	5.3	1	B5D0037	04/02/2015	04/02/15 10:18	
Surrogate: 1,2-Dichloroethane-d4	*94.7 %*	*20 - 189*		B5D0037	04/02/2015	*04/02/15 10:18*	
Surrogate: 4-Bromofluorobenzene	*96.7 %*	*20 - 173*		B5D0037	04/02/2015	*04/02/15 10:18*	
Surrogate: Dibromofluoromethane	*97.3 %*	*26 - 178*		B5D0037	04/02/2015	*04/02/15 10:18*	
Surrogate: Toluene-d8	*98.2 %*	*31 - 166*		B5D0037	04/02/2015	*04/02/15 10:18*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-5'

Lab ID: 1501144-15

Gasoline Range Organics by EPA 8015B (Modified) (5035)

Analyst: BT/

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics	ND	1.1	1	B5D0010	04/01/2015	04/02/15 17:57	
Surrogate: 4-Bromofluorobenzene *105 %*		*56 - 165*		B5D0010	04/01/2015	*04/02/15 17:57*	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	ND	10	1	B5D0043	04/02/2015	04/02/15 13:01	
ORO	ND	10	1	B5D0043	04/02/2015	04/02/15 13:01	
Surrogate: p-Terphenyl *94.0 %*		*49 - 142*		B5D0043	04/02/2015	*04/02/15 13:01*	

Volatile Organic Compounds by EPA 5035/EPA 8260B

Analyst: AG

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,1,1-Trichloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,1,2-Trichloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,1-Dichloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,1-Dichloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,1-Dichloropropene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2,3-Trichloropropane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2,3-Trichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2,4-Trichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2,4-Trimethylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2-Dibromo-3-chloropropane	ND	10	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2-Dibromoethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2-Dichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2-Dichloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,2-Dichloropropane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,3,5-Trimethylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,3-Dichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,3-Dichloropropane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
1,4-Dichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
2,2-Dichloropropane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
2-Chlorotoluene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-5'

Lab ID: 1501144-15

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4-Chlorotoluene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
4-Isopropyltoluene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Benzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Bromobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Bromochloromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Bromodichloromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Bromoform	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Bromomethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Carbon disulfide	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Carbon tetrachloride	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Chlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Chloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Chloroform	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Chloromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
cis-1,2-Dichloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
cis-1,3-Dichloropropene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Di-isopropyl ether	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Dibromochloromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Dibromomethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Dichlorodifluoromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Ethyl Acetate	ND	50	1	B5D0037	04/02/2015	04/02/15 10:36	
Ethyl Ether	ND	50	1	B5D0037	04/02/2015	04/02/15 10:36	
Ethyl tert-butyl ether	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Ethylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Freon-113	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Hexachlorobutadiene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Isopropylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
m,p-Xylene	ND	10	1	B5D0037	04/02/2015	04/02/15 10:36	
Methylene chloride	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
MTBE	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
n-Butylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
n-Propylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Naphthalene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
o-Xylene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
sec-Butylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Styrene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
tert-Amyl methyl ether	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID SG-1-5'

Lab ID: 1501144-15

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Butanol	ND	100	1	B5D0037	04/02/2015	04/02/15 10:36	
tert-Butylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Tetrachloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Toluene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
trans-1,2-Dichloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
trans-1,3-Dichloropropene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Trichloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Trichlorofluoromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Vinyl acetate	ND	50	1	B5D0037	04/02/2015	04/02/15 10:36	
Vinyl chloride	ND	5.0	1	B5D0037	04/02/2015	04/02/15 10:36	
Surrogate: 1,2-Dichloroethane-d4	*96.6 %*	*20 - 189*		B5D0037	04/02/2015	*04/02/15 10:36*	
Surrogate: 4-Bromofluorobenzene	*94.9 %*	*20 - 173*		B5D0037	04/02/2015	*04/02/15 10:36*	
Surrogate: Dibromofluoromethane	*99.6 %*	*26 - 178*		B5D0037	04/02/2015	*04/02/15 10:36*	
Surrogate: Toluene-d8	*94.9 %*	*31 - 166*		B5D0037	04/02/2015	*04/02/15 10:36*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID BD24-N0.5

Lab ID: 1501144-25

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**12**	1.0	1	B5D0012	04/01/2015	04/02/15 10:50	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD23-E0.5

Lab ID: 1501144-29

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**9.8**	1.0	1	B5D0012	04/01/2015	04/02/15 10:56	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD23-S0.5

Lab ID: 1501144-35

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**17**	1.0	1	B5D0012	04/01/2015	04/02/15 11:24	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID BD23-S2.5

Lab ID: 1501144-39

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.8**	1.0	1	B5D0012	04/01/2015	04/02/15 11:00	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID Dup4-0.5

Lab ID: 1501144-41

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.5**	1.0	1	B5D0152	04/06/2015	04/06/15 18:43	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID BD24-S0.5

Lab ID: 1501144-42

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.9**	1.0	1	B5D0012	04/01/2015	04/02/15 11:02	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD24-W0.5

Lab ID: 1501144-48

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**14**	1.0	1	B5D0012	04/01/2015	04/02/15 11:07	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID BD24-E0.5

Lab ID: 1501144-54

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**11**	1.0	1	B5D0012	04/01/2015	04/02/15 11:09	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID BD24-(N,E,S,W)-0.5

Lab ID: 1501144-58

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
4,4´-DDE [2C]	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
4,4´-DDT	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Aldrin	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
alpha-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
alpha-Chlordane [2C]	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
beta-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Chlordane [2C]	ND	8.5	1	B5D0021	04/01/2015	04/01/15 18:38	
delta-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Dieldrin [2C]	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Endosulfan I	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Endosulfan II	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Endosulfan sulfate	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Endrin	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Endrin aldehyde	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Endrin ketone	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:38	
gamma-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
gamma-Chlordane	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Heptachlor	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Heptachlor epoxide	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Methoxychlor	ND	5.0	1	B5D0021	04/01/2015	04/01/15 18:38	
Toxaphene	ND	50	1	B5D0021	04/01/2015	04/01/15 18:38	
Surrogate: Decachlorobiphenyl	*51.1 %*	*16 - 137*		B5D0021	04/01/2015	*04/01/15 18:38*	
Surrogate: Tetrachloro-m-xylene	*50.2 %*	*16 - 105*		B5D0021	04/01/2015	*04/01/15 18:38*	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID Dup5

Lab ID: 1501144-59

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.3**	1.0	1	B5D0152	04/06/2015	04/06/15 18:56	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0012 - EPA 3050B_S									
Blank (B5D0012-BLK1)				Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	ND	1.0			NR				
LCS (B5D0012-BS1)				Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	47.8328	1.0	50.0000		95.7	80 - 120			
Duplicate (B5D0012-DUP1)		**Source: 1501144-25**		Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	8.96409	1.0		11.9818	NR		28.8	20	R
Matrix Spike (B5D0012-MS1)		**Source: 1501144-25**		Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	105.328	1.0	125.000	11.9818	74.7	35 - 129			
Matrix Spike Dup (B5D0012-MSD1)		**Source: 1501144-25**		Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	103.826	1.0	125.000	11.9818	73.5	35 - 129	1.44	20	
Batch B5D0152 - EPA 3050B_S									
Blank (B5D0152-BLK1)				Prepared: 4/6/2015 Analyzed: 4/6/2015					
Lead	ND	1.0			NR				
LCS (B5D0152-BS1)				Prepared: 4/6/2015 Analyzed: 4/6/2015					
Lead	50.5366	1.0	50.0000		101	80 - 120			
Duplicate (B5D0152-DUP1)		**Source: 1501144-41**		Prepared: 4/6/2015 Analyzed: 4/6/2015					
Lead	8.89382	1.0		8.46037	NR		5.00	20	
Matrix Spike (B5D0152-MS1)		**Source: 1501144-41**		Prepared: 4/6/2015 Analyzed: 4/6/2015					
Lead	113.311	1.0	125.000	8.46037	83.9	35 - 129			
Matrix Spike Dup (B5D0152-MSD1)		**Source: 1501144-41**		Prepared: 4/6/2015 Analyzed: 4/6/2015					
Lead	112.482	1.0	125.000	8.46037	83.2	35 - 129	0.734	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Gasoline Range Organics by EPA 8015B (Modified) (5035) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0010 - GCVOA_S									
Blank (B5D0010-BLK1)					Prepared: 4/2/2015 Analyzed: 4/2/2015				
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.1943*		*0.200000*		*97.2*	*56 - 165*			
LCS (B5D0010-BS1)					Prepared: 4/2/2015 Analyzed: 4/2/2015				
Gasoline Range Organics	5.13700	1.0	5.00000		103	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.2194*		*0.200000*		*110*	*56 - 165*			
Matrix Spike (B5D0010-MS1)		**Source: 1501107-12**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
Gasoline Range Organics	5.18900	1.0	5.00000	ND	104	22 - 117			
Surrogate: 4-Bromofluorobenzene	*0.2109*		*0.200000*		*105*	*56 - 165*			
Matrix Spike Dup (B5D0010-MSD1)		**Source: 1501107-12**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
Gasoline Range Organics	5.11700	1.0	5.00000	ND	102	22 - 117	1.40	20	
Surrogate: 4-Bromofluorobenzene	*0.2221*		*0.200000*		*111*	*56 - 165*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0043 - GCSEMI_DRO_S									
Blank (B5D0043-BLK1)					Prepared: 4/2/2015 Analyzed: 4/2/2015				
DRO	ND	10			NR				
ORO	ND	10			NR				
Surrogate: p-Terphenyl	*89.46*		*80.0000*		*112*	*49 - 142*			
LCS (B5D0043-BS1)					Prepared: 4/2/2015 Analyzed: 4/2/2015				
DRO	723.790	10	1000.00		72.4	48 - 155			
Surrogate: p-Terphenyl	*82.74*		*80.0000*		*103*	*49 - 142*			
Matrix Spike (B5D0043-MS1)		**Source: 1501144-04**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
DRO	674.560	10	1000.00	ND	67.5	30 - 173			
Surrogate: p-Terphenyl	*75.93*		*80.0000*		*94.9*	*49 - 142*			
Matrix Spike Dup (B5D0043-MSD1)		**Source: 1501144-04**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
DRO	696.450	10	1000.00	ND	69.6	30 - 173	3.19	20	
Surrogate: p-Terphenyl	*77.29*		*80.0000*		*96.6*	*49 - 142*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S									
Blank (B5D0021-BLK1)				Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5D0021-BLK1) - Continued				Prepared: 4/1/2015 Analyzed: 4/1/2015					
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*13.11*		*16.6667*		*78.6*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*13.12*		*16.6667*		*78.7*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.12*		*16.6667*		*72.7*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.49*		*16.6667*		*74.9*	*16 - 105*			
LCS (B5D0021-BS1)				Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD	13.4340	2.0	16.6667		80.6	58 - 100			
4,4´-DDD [2C]	14.2598	2.0	16.6667		85.6	58 - 100			
4,4´-DDE	14.6042	2.0	16.6667		87.6	65 - 99			
4,4´-DDE [2C]	15.4505	2.0	16.6667		92.7	65 - 99			
4,4´-DDT	13.1305	2.0	16.6667		78.8	39 - 116			
4,4´-DDT [2C]	13.1948	2.0	16.6667		79.2	39 - 116			
Aldrin	14.0187	1.0	16.6667		84.1	57 - 94			
Aldrin [2C]	14.7417	1.0	16.6667		88.4	57 - 94			
alpha-BHC	13.1247	1.0	16.6667		78.7	58 - 84			
alpha-BHC [2C]	13.7407	1.0	16.6667		82.4	58 - 84			
alpha-Chlordane	14.0807	1.0	16.6667		84.5	58 - 96			
alpha-Chlordane [2C]	14.8320	1.0	16.6667		89.0	58 - 96			
beta-BHC	12.8215	1.0	16.6667		76.9	58 - 87			
beta-BHC [2C]	13.2515	1.0	16.6667		79.5	58 - 87			
delta-BHC	13.5202	1.0	16.6667		81.1	18 - 75			L3
delta-BHC [2C]	14.3930	1.0	16.6667		86.4	18 - 75			L3
Dieldrin	13.8830	2.0	16.6667		83.3	62 - 94			
Dieldrin [2C]	14.1205	2.0	16.6667		84.7	62 - 94			
Endosulfan I	13.1253	1.0	16.6667		78.8	58 - 90			
Endosulfan I [2C]	13.6088	1.0	16.6667		81.7	58 - 90			
Endosulfan II	13.5000	2.0	16.6667		81.0	63 - 95			
Endosulfan II [2C]	13.6910	2.0	16.6667		82.1	63 - 95			
Endosulfan sulfate	15.6297	2.0	16.6667		93.8	59 - 89			L3
Endosulfan Sulfate [2C]	15.7015	2.0	16.6667		94.2	59 - 89			L3
Endrin	14.2875	2.0	16.6667		85.7	64 - 96			
Endrin [2C]	14.6507	2.0	16.6667		87.9	64 - 96			
Endrin aldehyde	13.0435	2.0	16.6667		78.3	65 - 95			
Endrin aldehyde [2C]	14.0040	2.0	16.6667		84.0	65 - 95			
Endrin ketone	11.6662	2.0	16.6667		70.0	59 - 101			
Endrin ketone [2C]	11.5212	2.0	16.6667		69.1	59 - 101			
gamma-BHC	13.4788	1.0	16.6667		80.9	63 - 89			
gamma-BHC [2C]	14.1900	1.0	16.6667		85.1	63 - 89			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5D0021-BS1) - Continued				Prepared: 4/1/2015 Analyzed: 4/1/2015					
gamma-Chlordane	14.1435	1.0	16.6667		84.9	61 - 95			
gamma-Chlordane [2C]	14.6807	1.0	16.6667		88.1	61 - 95			
Heptachlor	14.1907	1.0	16.6667		85.1	65 - 102			
Heptachlor [2C]	14.8013	1.0	16.6667		88.8	65 - 102			
Heptachlor epoxide	14.2053	1.0	16.6667		85.2	61 - 95			
Heptachlor epoxide [2C]	14.6277	1.0	16.6667		87.8	61 - 95			
Methoxychlor	13.5673	5.0	16.6667		81.4	29 - 128			
Methoxychlor [2C]	12.6752	5.0	16.6667		76.1	29 - 128			
Surrogate: Decachlorobiphenyl	*12.50*		*16.6667*		*75.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.37*		*16.6667*		*74.2*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.01*		*16.6667*		*72.1*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.52*		*16.6667*		*75.1*	*16 - 105*			
Matrix Spike (B5D0021-MS1)		**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD	10.6377	2.0	16.6667	ND	63.8	27 - 123			
4,4´-DDD [2C]	12.3688	2.0	16.6667	ND	74.2	27 - 123			
4,4´-DDE	12.3173	2.0	16.6667	ND	73.9	28 - 126			
4,4´-DDE [2C]	14.0682	2.0	16.6667	ND	84.4	28 - 126			
4,4´-DDT	11.6038	2.0	16.6667	ND	69.6	12 - 149			
4,4´-DDT [2C]	12.4247	2.0	16.6667	ND	74.5	12 - 149			
Aldrin	12.2818	1.0	16.6667	ND	73.7	29 - 116			
Aldrin [2C]	13.3707	1.0	16.6667	ND	80.2	29 - 116			
alpha-BHC	11.0108	1.0	16.6667	ND	66.1	27 - 104			
alpha-BHC [2C]	12.5315	1.0	16.6667	ND	75.2	27 - 104			
alpha-Chlordane	11.8057	1.0	16.6667	ND	70.8	14 - 130			
alpha-Chlordane [2C]	13.1538	1.0	16.6667	ND	78.9	14 - 130			
beta-BHC	7.86167	1.0	16.6667	ND	47.2	20 - 115			
beta-BHC [2C]	8.14917	1.0	16.6667	ND	48.9	20 - 115			
delta-BHC	8.40017	1.0	16.6667	ND	50.4	8 - 78			
delta-BHC [2C]	9.21550	1.0	16.6667	ND	55.3	8 - 78			
Dieldrin	11.3907	2.0	16.6667	ND	68.3	20 - 134			
Dieldrin [2C]	12.3295	2.0	16.6667	ND	74.0	20 - 134			
Endosulfan I	11.0087	1.0	16.6667	ND	66.1	27 - 114			
Endosulfan I [2C]	12.0818	1.0	16.6667	ND	72.5	27 - 114			
Endosulfan II	9.37500	2.0	16.6667	ND	56.2	16 - 125			
Endosulfan II [2C]	9.81267	2.0	16.6667	ND	58.9	16 - 125			
Endosulfan sulfate	6.89917	2.0	16.6667	ND	41.4	1 - 126			
Endosulfan Sulfate [2C]	7.38917	2.0	16.6667	ND	44.3	1 - 126			
Endrin	11.8712	2.0	16.6667	ND	71.2	33 - 122			
Endrin [2C]	13.1093	2.0	16.6667	ND	78.7	33 - 122			
Endrin aldehyde	5.70500	2.0	16.6667	ND	34.2	0 - 137			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0021-MS1) - Continued		**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
Endrin aldehyde [2C]	5.77033	2.0	16.6667	ND	34.6	0 - 137			
Endrin ketone	6.55200	2.0	16.6667	ND	39.3	10 - 126			
Endrin ketone [2C]	6.97217	2.0	16.6667	ND	41.8	10 - 126			
gamma-BHC	11.6248	1.0	16.6667	ND	69.7	30 - 111			
gamma-BHC [2C]	12.4682	1.0	16.6667	ND	74.8	30 - 111			
gamma-Chlordane	11.6428	1.0	16.6667	ND	69.9	16 - 130			
gamma-Chlordane [2C]	12.7752	1.0	16.6667	ND	76.7	16 - 130			
Heptachlor	12.6025	1.0	16.6667	ND	75.6	34 - 127			
Heptachlor [2C]	13.6023	1.0	16.6667	ND	81.6	34 - 127			
Heptachlor epoxide	11.9348	1.0	16.6667	ND	71.6	19 - 130			
Heptachlor epoxide [2C]	12.8912	1.0	16.6667	ND	77.3	19 - 130			
Methoxychlor	12.1957	5.0	16.6667	ND	73.2	16 - 153			
Methoxychlor [2C]	10.5525	5.0	16.6667	ND	63.3	16 - 153			
Surrogate: Decachlorobiphenyl	*11.00*		*16.6667*		*66.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.47*		*16.6667*		*68.8*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.55*		*16.6667*		*63.3*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.62*		*16.6667*		*69.7*	*16 - 105*			
Matrix Spike Dup (B5D0021-MSD1)		**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD	10.4422	2.0	16.6667	ND	62.7	27 - 123	1.85	20	
4,4´-DDD [2C]	12.0185	2.0	16.6667	ND	72.1	27 - 123	2.87	20	
4,4´-DDE	11.7158	2.0	16.6667	ND	70.3	28 - 126	5.01	20	
4,4´-DDE [2C]	13.7912	2.0	16.6667	ND	82.7	28 - 126	1.99	20	
4,4´-DDT	11.2185	2.0	16.6667	ND	67.3	12 - 149	3.38	20	
4,4´-DDT [2C]	12.0967	2.0	16.6667	ND	72.6	12 - 149	2.68	20	
Aldrin	12.1880	1.0	16.6667	ND	73.1	29 - 116	0.767	20	
Aldrin [2C]	13.2980	1.0	16.6667	ND	79.8	29 - 116	0.545	20	
alpha-BHC	11.9008	1.0	16.6667	ND	71.4	27 - 104	7.77	20	
alpha-BHC [2C]	12.7507	1.0	16.6667	ND	76.5	27 - 104	1.73	20	
alpha-Chlordane	11.3267	1.0	16.6667	ND	68.0	14 - 130	4.14	20	
alpha-Chlordane [2C]	12.9250	1.0	16.6667	ND	77.5	14 - 130	1.75	20	
beta-BHC	7.92483	1.0	16.6667	ND	47.5	20 - 115	0.800	20	
beta-BHC [2C]	8.22183	1.0	16.6667	ND	49.3	20 - 115	0.888	20	
delta-BHC	8.61750	1.0	16.6667	ND	51.7	8 - 78	2.55	20	
delta-BHC [2C]	9.57150	1.0	16.6667	ND	57.4	8 - 78	3.79	20	
Dieldrin	10.8935	2.0	16.6667	ND	65.4	20 - 134	4.46	20	
Dieldrin [2C]	12.0262	2.0	16.6667	ND	72.2	20 - 134	2.49	20	
Endosulfan I	10.5790	1.0	16.6667	ND	63.5	27 - 114	3.98	20	
Endosulfan I [2C]	11.7993	1.0	16.6667	ND	70.8	27 - 114	2.37	20	
Endosulfan II	9.50533	2.0	16.6667	ND	57.0	16 - 125	1.38	20	
Endosulfan II [2C]	9.86750	2.0	16.6667	ND	59.2	16 - 125	0.557	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0021-MSD1) - Continued		**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
Endosulfan sulfate	7.12067	2.0	16.6667	ND	42.7	1 - 126	3.16	20	
Endosulfan Sulfate [2C]	7.73117	2.0	16.6667	ND	46.4	1 - 126	4.52	20	
Endrin	11.4828	2.0	16.6667	ND	68.9	33 - 122	3.33	20	
Endrin [2C]	12.7010	2.0	16.6667	ND	76.2	33 - 122	3.16	20	
Endrin aldehyde	5.85283	2.0	16.6667	ND	35.1	0 - 137	2.56	20	
Endrin aldehyde [2C]	5.91600	2.0	16.6667	ND	35.5	0 - 137	2.49	20	
Endrin ketone	7.07133	2.0	16.6667	ND	42.4	10 - 126	7.62	20	
Endrin ketone [2C]	7.61917	2.0	16.6667	ND	45.7	10 - 126	8.87	20	
gamma-BHC	11.8465	1.0	16.6667	ND	71.1	30 - 111	1.89	20	
gamma-BHC [2C]	12.7080	1.0	16.6667	ND	76.2	30 - 111	1.91	20	
gamma-Chlordane	11.2222	1.0	16.6667	ND	67.3	16 - 130	3.68	20	
gamma-Chlordane [2C]	12.6027	1.0	16.6667	ND	75.6	16 - 130	1.36	20	
Heptachlor	12.6028	1.0	16.6667	ND	75.6	34 - 127	0.00262	20	
Heptachlor [2C]	13.7267	1.0	16.6667	ND	82.4	34 - 127	0.910	20	
Heptachlor epoxide	11.6615	1.0	16.6667	ND	70.0	19 - 130	2.32	20	
Heptachlor epoxide [2C]	12.7453	1.0	16.6667	ND	76.5	19 - 130	1.14	20	
Methoxychlor	14.3945	5.0	16.6667	ND	86.4	16 - 153	16.5	20	
Methoxychlor [2C]	10.5957	5.0	16.6667	ND	63.6	16 - 153	0.408	20	
Surrogate: Decachlorobiphenyl	*11.64*		*16.6667*		*69.8*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.22*		*16.6667*		*73.3*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.81*		*16.6667*		*64.9*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.72*		*16.6667*		*70.3*	*16 - 105*			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0001 - MSVOA_S									
Blank (B5D0001-BLK1)				Prepared: 4/1/2015 Analyzed: 4/1/2015					
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0001 - MSVOA_S (continued)									
Blank (B5D0001-BLK1) - Continued				Prepared: 4/1/2015 Analyzed: 4/1/2015					
Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*41.41*		*50.0000*		*82.8*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*47.32*		*50.0000*		*94.6*	*20 - 173*			
Surrogate: Dibromofluoromethane	*45.50*		*50.0000*		*91.0*	*26 - 178*			
Surrogate: Toluene-d8	*48.84*		*50.0000*		*97.7*	*31 - 166*			
LCS (B5D0001-BS1)				Prepared: 4/1/2015 Analyzed: 4/1/2015					
1,1,1,2-Tetrachloroethane	49.3400	5.0	50.0000		98.7	74 - 117			
1,1,1-Trichloroethane	41.0300	5.0	50.0000		82.1	65 - 130			
1,1,2,2-Tetrachloroethane	46.0700	5.0	50.0000		92.1	63 - 123			
1,1,2-Trichloroethane	46.7200	5.0	50.0000		93.4	66 - 122			
1,1-Dichloroethane	38.9600	5.0	50.0000		77.9	65 - 124			
1,1-Dichloroethene	34.1600	5.0	50.0000		68.3	60 - 130			
1,1-Dichloropropene	49.0800	5.0	50.0000		98.2	75 - 121			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0001 - MSVOA_S (continued)									
LCS (B5D0001-BS1) - Continued				Prepared: 4/1/2015 Analyzed: 4/1/2015					
1,2,3-Trichloropropane	43.3200	5.0	50.0000		86.6	62 - 126			
1,2,3-Trichlorobenzene	55.8500	5.0	50.0000		112	72 - 120			
1,2,4-Trichlorobenzene	55.9800	5.0	50.0000		112	75 - 121			
1,2,4-Trimethylbenzene	49.8500	5.0	50.0000		99.7	82 - 118			
1,2-Dibromo-3-chloropropane	43.9500	10	50.0000		87.9	67 - 121			
1,2-Dibromoethane	49.6600	5.0	50.0000		99.3	69 - 123			
1,2-Dichlorobenzene	50.5600	5.0	50.0000		101	81 - 114			
1,2-Dichloroethane	44.7700	5.0	50.0000		89.5	71 - 119			
1,2-Dichloropropane	45.7100	5.0	50.0000		91.4	71 - 118			
1,3,5-Trimethylbenzene	49.7200	5.0	50.0000		99.4	81 - 120			
1,3-Dichlorobenzene	49.9100	5.0	50.0000		99.8	80 - 115			
1,3-Dichloropropane	46.9400	5.0	50.0000		93.9	77 - 117			
1,4-Dichlorobenzene	50.4900	5.0	50.0000		101	80 - 115			
2,2-Dichloropropane	41.7000	5.0	50.0000		83.4	58 - 141			
2-Chlorotoluene	47.7000	5.0	50.0000		95.4	78 - 120			
4-Chlorotoluene	48.1600	5.0	50.0000		96.3	79 - 119			
4-Isopropyltoluene	52.6900	5.0	50.0000		105	81 - 125			
Benzene	90.0300	5.0	100.000		90.0	73 - 116			
Bromobenzene	49.4600	5.0	50.0000		98.9	78 - 115			
Bromochloromethane	42.4400	5.0	50.0000		84.9	66 - 121			
Bromodichloromethane	45.4500	5.0	50.0000		90.9	73 - 120			
Bromoform	50.5800	5.0	50.0000		101	68 - 124			
Bromomethane	34.3100	5.0	50.0000		68.6	26 - 163			
Carbon disulfide	32.9900	5.0	50.0000		66.0	43 - 142			
Carbon tetrachloride	44.2700	5.0	50.0000		88.5	67 - 130			
Chlorobenzene	48.7000	5.0	50.0000		97.4	82 - 114			
Chloroethane	36.1000	5.0	50.0000		72.2	40 - 151			
Chloroform	40.3900	5.0	50.0000		80.8	68 - 124			
Chloromethane	35.9800	5.0	50.0000		72.0	18 - 144			
cis-1,2-Dichloroethene	44.3300	5.0	50.0000		88.7	66 - 125			
cis-1,3-Dichloropropene	46.3600	5.0	50.0000		92.7	77 - 120			
Di-isopropyl ether	40.7300	5.0	50.0000		81.5	56 - 132			
Dibromochloromethane	47.7000	5.0	50.0000		95.4	76 - 118			
Dibromomethane	49.0200	5.0	50.0000		98.0	69 - 122			
Dichlorodifluoromethane	43.3600	5.0	50.0000		86.7	0 - 155			
Ethyl Acetate	408.050	50	500.000		81.6	31 - 137			
Ethyl Ether	384.750	50	500.000		77.0	47 - 150			
Ethyl tert-butyl ether	44.6500	5.0	50.0000		89.3	63 - 134			
Ethylbenzene	94.2800	5.0	100.000		94.3	79 - 115			
Freon-113	35.1500	5.0	50.0000		70.3	62 - 134			
Hexachlorobutadiene	55.6700	5.0	50.0000		111	71 - 121			
Isopropylbenzene	49.5100	5.0	50.0000		99.0	78 - 126			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0001 - MSVOA_S (continued)									
LCS (B5D0001-BS1) - Continued					Prepared: 4/1/2015 Analyzed: 4/1/2015				
m,p-Xylene	98.1700	10	100.000		98.2	80 - 119			
Methylene chloride	45.9900	5.0	50.0000		92.0	56 - 129			
MTBE	44.4200	5.0	50.0000		88.8	61 - 124			
n-Butylbenzene	50.9200	5.0	50.0000		102	78 - 127			
n-Propylbenzene	49.1000	5.0	50.0000		98.2	77 - 128			
Naphthalene	54.9600	5.0	50.0000		110	61 - 141			
o-Xylene	100.720	5.0	100.000		101	81 - 116			
sec-Butylbenzene	50.5200	5.0	50.0000		101	81 - 125			
Styrene	52.4400	5.0	50.0000		105	82 - 120			
tert-Amyl methyl ether	45.4500	5.0	50.0000		90.9	52 - 149			
tert-Butanol	210.670	100	250.000		84.3	26 - 160			
tert-Butylbenzene	50.7300	5.0	50.0000		101	80 - 123			
Tetrachloroethene	50.8800	5.0	50.0000		102	75 - 123			
Toluene	95.4500	5.0	100.000		95.4	75 - 119			
trans-1,2-Dichloroethene	43.2500	5.0	50.0000		86.5	62 - 127			
trans-1,3-Dichloropropene	46.2700	5.0	50.0000		92.5	68 - 121			
Trichloroethene	50.1600	5.0	50.0000		100	73 - 119			
Trichlorofluoromethane	31.5600	5.0	50.0000		63.1	47 - 157			
Vinyl acetate	365.590	50	500.000		73.1	20 - 136			
Vinyl chloride	35.0800	5.0	50.0000		70.2	27 - 147			
Surrogate: 1,2-Dichloroethane-d4	*40.90*		*50.0000*		*81.8*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*50.70*		*50.0000*		*101*	*20 - 173*			
Surrogate: Dibromofluoromethane	*45.14*		*50.0000*		*90.3*	*26 - 178*			
Surrogate: Toluene-d8	*50.27*		*50.0000*		*101*	*31 - 166*			
Matrix Spike (B5D0001-MS1)		**Source: 1501155-01**			Prepared: 4/1/2015 Analyzed: 4/1/2015				
1,1,1,2-Tetrachloroethane	45.0000	5.0	50.0000	ND	90.0	45 - 122			
1,1,1-Trichloroethane	40.7200	5.0	50.0000	ND	81.4	46 - 131			
1,1,2,2-Tetrachloroethane	39.6600	5.0	50.0000	ND	79.3	34 - 133			
1,1,2-Trichloroethane	41.4700	5.0	50.0000	ND	82.9	40 - 133			
1,1-Dichloroethane	36.3500	5.0	50.0000	ND	72.7	50 - 120			
1,1-Dichloroethene	34.3300	5.0	50.0000	ND	68.7	42 - 130			
1,1-Dichloropropene	47.8200	5.0	50.0000	ND	95.6	49 - 125			
1,2,3-Trichloropropane	40.0300	5.0	50.0000	ND	80.1	42 - 130			
1,2,3-Trichlorobenzene	45.5800	5.0	50.0000	ND	91.2	2 - 136			
1,2,4-Trichlorobenzene	45.3900	5.0	50.0000	ND	90.8	6 - 137			
1,2,4-Trimethylbenzene	43.4900	5.0	50.0000	ND	87.0	37 - 129			
1,2-Dibromo-3-chloropropane	43.5400	10	50.0000	ND	87.1	36 - 135			
1,2-Dibromoethane	44.5100	5.0	50.0000	ND	89.0	43 - 129			
1,2-Dichlorobenzene	43.4600	5.0	50.0000	ND	86.9	31 - 129			
1,2-Dichloroethane	39.6700	5.0	50.0000	ND	79.3	50 - 122			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0001 - MSVOA_S (continued)									
Matrix Spike (B5D0001-MS1) - Continued		**Source: 1501155-01**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
1,2-Dichloropropane	41.4800	5.0	50.0000	ND	83.0	51 - 119			
1,3,5-Trimethylbenzene	43.1800	5.0	50.0000	ND	86.4	38 - 130			
1,3-Dichlorobenzene	43.8200	5.0	50.0000	ND	87.6	31 - 128			
1,3-Dichloropropane	43.3500	5.0	50.0000	ND	86.7	52 - 122			
1,4-Dichlorobenzene	43.3000	5.0	50.0000	ND	86.6	31 - 128			
2,2-Dichloropropane	40.5500	5.0	50.0000	ND	81.1	42 - 140			
2-Chlorotoluene	42.2100	5.0	50.0000	ND	84.4	38 - 129			
4-Chlorotoluene	42.1300	5.0	50.0000	ND	84.3	38 - 128			
4-Isopropyltoluene	44.4600	5.0	50.0000	ND	88.9	31 - 137			
Benzene	84.1700	5.0	100.000	ND	84.2	51 - 117			
Bromobenzene	43.8200	5.0	50.0000	ND	87.6	41 - 125			
Bromochloromethane	38.9500	5.0	50.0000	ND	77.9	47 - 123			
Bromodichloromethane	42.2400	5.0	50.0000	ND	84.5	50 - 122			
Bromoform	47.1500	5.0	50.0000	ND	94.3	39 - 131			
Bromomethane	31.8300	5.0	50.0000	ND	63.7	10 - 154			
Carbon disulfide	34.5400	5.0	50.0000	ND	69.1	24 - 138			
Carbon tetrachloride	45.4500	5.0	50.0000	ND	90.9	44 - 131			
Chlorobenzene	44.6300	5.0	50.0000	ND	89.3	46 - 123			
Chloroethane	34.3700	5.0	50.0000	ND	68.7	27 - 143			
Chloroform	37.2900	5.0	50.0000	ND	74.6	50 - 124			
Chloromethane	34.7000	5.0	50.0000	ND	69.4	8 - 139			
cis-1,2-Dichloroethene	41.3800	5.0	50.0000	ND	82.8	48 - 125			
cis-1,3-Dichloropropene	41.5800	5.0	50.0000	ND	83.2	51 - 123			
Di-isopropyl ether	37.2700	5.0	50.0000	ND	74.5	45 - 125			
Dibromochloromethane	43.9800	5.0	50.0000	ND	88.0	48 - 124			
Dibromomethane	44.6800	5.0	50.0000	ND	89.4	48 - 124			
Dichlorodifluoromethane	42.5900	5.0	50.0000	ND	85.2	0 - 150			
Ethyl Acetate	ND	50	500.000	ND	NR	0 - 140			
Ethyl Ether	352.480	50	500.000	ND	70.5	36 - 142			
Ethyl tert-butyl ether	42.0800	5.0	50.0000	ND	84.2	46 - 133			
Ethylbenzene	87.6800	5.0	100.000	ND	87.7	46 - 123			
Freon-113	35.3600	5.0	50.0000	ND	70.7	38 - 137			
Hexachlorobutadiene	42.2600	5.0	50.0000	ND	84.5	5 - 132			
Isopropylbenzene	44.4600	5.0	50.0000	ND	88.9	43 - 132			
m,p-Xylene	90.0400	10	100.000	ND	90.0	45 - 128			
Methylene chloride	41.4900	5.0	50.0000	ND	83.0	37 - 126			
MTBE	41.7600	5.0	50.0000	ND	83.5	46 - 125			
n-Butylbenzene	42.0900	5.0	50.0000	ND	84.2	24 - 138			
n-Propylbenzene	43.6400	5.0	50.0000	ND	87.3	40 - 133			
Naphthalene	49.1100	5.0	50.0000	ND	98.2	10 - 149			
o-Xylene	91.6700	5.0	100.000	ND	91.7	45 - 125			
sec-Butylbenzene	43.5500	5.0	50.0000	ND	87.1	33 - 136			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0001 - MSVOA_S (continued)									
Matrix Spike (B5D0001-MS1) - Continued		**Source: 1501155-01**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
Styrene	47.2000	5.0	50.0000	ND	94.4	43 - 128			
tert-Amyl methyl ether	41.3500	5.0	50.0000	ND	82.7	35 - 147			
tert-Butanol	194.660	100	250.000	ND	77.9	0 - 208			
tert-Butylbenzene	44.3700	5.0	50.0000	ND	88.7	36 - 133			
Tetrachloroethene	48.1800	5.0	50.0000	ND	96.4	41 - 129			
Toluene	87.5200	5.0	100.000	ND	87.5	49 - 124			
trans-1,2-Dichloroethene	40.5300	5.0	50.0000	ND	81.1	44 - 126			
trans-1,3-Dichloropropene	40.5000	5.0	50.0000	ND	81.0	42 - 125			
Trichloroethene	50.5600	5.0	50.0000	ND	101	38 - 139			
Trichlorofluoromethane	32.3600	5.0	50.0000	ND	64.7	30 - 157			
Vinyl acetate	ND	50	500.000	ND	NR	0 - 132			
Vinyl chloride	35.2000	5.0	50.0000	ND	70.4	19 - 142			
Surrogate: 1,2-Dichloroethane-d4	*41.11*		*50.0000*		*82.2*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*52.15*		*50.0000*		*104*	*20 - 173*			
Surrogate: Dibromofluoromethane	*45.85*		*50.0000*		*91.7*	*26 - 178*			
Surrogate: Toluene-d8	*49.76*		*50.0000*		*99.5*	*31 - 166*			
Matrix Spike Dup (B5D0001-MSD1)		**Source: 1501155-01**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
1,1,1,2-Tetrachloroethane	45.7000	5.0	50.0000	ND	91.4	45 - 122	1.54	20	
1,1,1-Trichloroethane	42.8200	5.0	50.0000	ND	85.6	46 - 131	5.03	20	
1,1,2,2-Tetrachloroethane	42.1800	5.0	50.0000	ND	84.4	34 - 133	6.16	20	
1,1,2-Trichloroethane	44.0900	5.0	50.0000	ND	88.2	40 - 133	6.12	20	
1,1-Dichloroethane	37.5400	5.0	50.0000	ND	75.1	50 - 120	3.22	20	
1,1-Dichloroethene	35.6500	5.0	50.0000	ND	71.3	42 - 130	3.77	20	
1,1-Dichloropropene	47.5400	5.0	50.0000	ND	95.1	49 - 125	0.587	20	
1,2,3-Trichloropropane	43.7200	5.0	50.0000	ND	87.4	42 - 130	8.81	20	
1,2,3-Trichlorobenzene	44.8000	5.0	50.0000	ND	89.6	2 - 136	1.73	20	
1,2,4-Trichlorobenzene	44.9800	5.0	50.0000	ND	90.0	6 - 137	0.907	20	
1,2,4-Trimethylbenzene	45.1700	5.0	50.0000	ND	90.3	37 - 129	3.79	20	
1,2-Dibromo-3-chloropropane	46.4600	10	50.0000	ND	92.9	36 - 135	6.49	20	
1,2-Dibromoethane	47.0200	5.0	50.0000	ND	94.0	43 - 129	5.48	20	
1,2-Dichlorobenzene	45.7300	5.0	50.0000	ND	91.5	31 - 129	5.09	20	
1,2-Dichloroethane	42.1200	5.0	50.0000	ND	84.2	50 - 122	5.99	20	
1,2-Dichloropropane	41.9600	5.0	50.0000	ND	83.9	51 - 119	1.15	20	
1,3,5-Trimethylbenzene	45.9800	5.0	50.0000	ND	92.0	38 - 130	6.28	20	
1,3-Dichlorobenzene	45.5800	5.0	50.0000	ND	91.2	31 - 128	3.94	20	
1,3-Dichloropropane	44.5900	5.0	50.0000	ND	89.2	52 - 122	2.82	20	
1,4-Dichlorobenzene	45.8800	5.0	50.0000	ND	91.8	31 - 128	5.79	20	
2,2-Dichloropropane	41.8600	5.0	50.0000	ND	83.7	42 - 140	3.18	20	
2-Chlorotoluene	44.5900	5.0	50.0000	ND	89.2	38 - 129	5.48	20	
4-Chlorotoluene	44.6600	5.0	50.0000	ND	89.3	38 - 128	5.83	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0001 - MSVOA_S (continued)									
Matrix Spike Dup (B5D0001-MSD1) - Continued		**Source: 1501155-01**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
4-Isopropyltoluene	46.6300	5.0	50.0000	ND	93.3	31 - 137	4.76	20	
Benzene	85.0100	5.0	100.000	ND	85.0	51 - 117	0.993	20	
Bromobenzene	46.7800	5.0	50.0000	ND	93.6	41 - 125	6.53	20	
Bromochloromethane	41.5700	5.0	50.0000	ND	83.1	47 - 123	6.51	20	
Bromodichloromethane	42.1600	5.0	50.0000	ND	84.3	50 - 122	0.190	20	
Bromoform	48.4800	5.0	50.0000	ND	97.0	39 - 131	2.78	20	
Bromomethane	31.2600	5.0	50.0000	ND	62.5	10 - 154	1.81	20	
Carbon disulfide	38.3500	5.0	50.0000	ND	76.7	24 - 138	10.5	20	
Carbon tetrachloride	46.9200	5.0	50.0000	ND	93.8	44 - 131	3.18	20	
Chlorobenzene	45.8900	5.0	50.0000	ND	91.8	46 - 123	2.78	20	
Chloroethane	33.2300	5.0	50.0000	ND	66.5	27 - 143	3.37	20	
Chloroform	38.5900	5.0	50.0000	ND	77.2	50 - 124	3.43	20	
Chloromethane	31.7800	5.0	50.0000	ND	63.6	8 - 139	8.78	20	
cis-1,2-Dichloroethene	42.4300	5.0	50.0000	ND	84.9	48 - 125	2.51	20	
cis-1,3-Dichloropropene	43.6100	5.0	50.0000	ND	87.2	51 - 123	4.77	20	
Di-isopropyl ether	38.1100	5.0	50.0000	ND	76.2	45 - 125	2.23	20	
Dibromochloromethane	45.7300	5.0	50.0000	ND	91.5	48 - 124	3.90	20	
Dibromomethane	44.7700	5.0	50.0000	ND	89.5	48 - 124	0.201	20	
Dichlorodifluoromethane	41.9700	5.0	50.0000	ND	83.9	0 - 150	1.47	20	
Ethyl Acetate	ND	50	500.000	ND	NR	0 - 140		20	
Ethyl Ether	365.080	50	500.000	ND	73.0	36 - 142	3.51	20	
Ethyl tert-butyl ether	43.0900	5.0	50.0000	ND	86.2	46 - 133	2.37	20	
Ethylbenzene	88.5400	5.0	100.000	ND	88.5	46 - 123	0.976	20	
Freon-113	37.5700	5.0	50.0000	ND	75.1	38 - 137	6.06	20	
Hexachlorobutadiene	43.7000	5.0	50.0000	ND	87.4	5 - 132	3.35	20	
Isopropylbenzene	47.5300	5.0	50.0000	ND	95.1	43 - 132	6.67	20	
m,p-Xylene	90.9200	10	100.000	ND	90.9	45 - 128	0.973	20	
Methylene chloride	43.4100	5.0	50.0000	ND	86.8	37 - 126	4.52	20	
MTBE	42.6800	5.0	50.0000	ND	85.4	46 - 125	2.18	20	
n-Butylbenzene	44.4000	5.0	50.0000	ND	88.8	24 - 138	5.34	20	
n-Propylbenzene	46.6900	5.0	50.0000	ND	93.4	40 - 133	6.75	20	
Naphthalene	47.8100	5.0	50.0000	ND	95.6	10 - 149	2.68	20	
o-Xylene	90.6100	5.0	100.000	ND	90.6	45 - 125	1.16	20	
sec-Butylbenzene	46.5300	5.0	50.0000	ND	93.1	33 - 136	6.62	20	
Styrene	47.7300	5.0	50.0000	ND	95.5	43 - 128	1.12	20	
tert-Amyl methyl ether	42.5500	5.0	50.0000	ND	85.1	35 - 147	2.86	20	
tert-Butanol	210.910	100	250.000	ND	84.4	0 - 208	8.01	20	
tert-Butylbenzene	47.5700	5.0	50.0000	ND	95.1	36 - 133	6.96	20	
Tetrachloroethene	50.2500	5.0	50.0000	ND	100	41 - 129	4.21	20	
Toluene	88.4500	5.0	100.000	ND	88.4	49 - 124	1.06	20	
trans-1,2-Dichloroethene	41.3400	5.0	50.0000	ND	82.7	44 - 126	1.98	20	
trans-1,3-Dichloropropene	41.7800	5.0	50.0000	ND	83.6	42 - 125	3.11	20	

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0001 - MSVOA_S (continued)									
Matrix Spike Dup (B5D0001-MSD1) - Continued		**Source: 1501155-01**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
Trichloroethene	50.5400	5.0	50.0000	ND	101	38 - 139	0.0396	20	
Trichlorofluoromethane	33.5600	5.0	50.0000	ND	67.1	30 - 157	3.64	20	
Vinyl acetate	ND	50	500.000	ND	NR	0 - 132		20	
Vinyl chloride	33.5600	5.0	50.0000	ND	67.1	19 - 142	4.77	20	
Surrogate: 1,2-Dichloroethane-d4	*42.20*		*50.0000*		*84.4*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*51.88*		*50.0000*		*104*	*20 - 173*			
Surrogate: Dibromofluoromethane	*47.08*		*50.0000*		*94.2*	*26 - 178*			
Surrogate: Toluene-d8	*50.26*		*50.0000*		*101*	*31 - 166*			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S									
Blank (B5D0037-BLK1)				Prepared: 4/2/2015 Analyzed: 4/2/2015					
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Blank (B5D0037-BLK1) - Continued				Prepared: 4/2/2015 Analyzed: 4/2/2015					
Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*40.60*		*50.0000*		*81.2*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*46.47*		*50.0000*		*92.9*	*20 - 173*			
Surrogate: Dibromofluoromethane	*45.51*		*50.0000*		*91.0*	*26 - 178*			
Surrogate: Toluene-d8	*49.40*		*50.0000*		*98.8*	*31 - 166*			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
LCS (B5D0037-BS1)				Prepared: 4/2/2015 Analyzed: 4/2/2015					
1,1,1,2-Tetrachloroethane	51.8500	5.0	50.0000		104	74 - 117			
1,1,1-Trichloroethane	45.0100	5.0	50.0000		90.0	65 - 130			
1,1,2,2-Tetrachloroethane	44.3300	5.0	50.0000		88.7	63 - 123			
1,1,2-Trichloroethane	48.5100	5.0	50.0000		97.0	66 - 122			
1,1-Dichloroethane	41.3600	5.0	50.0000		82.7	65 - 124			
1,1-Dichloroethene	38.7800	5.0	50.0000		77.6	60 - 130			
1,1-Dichloropropene	50.2900	5.0	50.0000		101	75 - 121			
1,2,3-Trichloropropane	43.1800	5.0	50.0000		86.4	62 - 126			
1,2,3-Trichlorobenzene	57.8600	5.0	50.0000		116	72 - 120			
1,2,4-Trichlorobenzene	57.1800	5.0	50.0000		114	75 - 121			
1,2,4-Trimethylbenzene	49.8500	5.0	50.0000		99.7	82 - 118			
1,2-Dibromo-3-chloropropane	43.7800	10	50.0000		87.6	67 - 121			
1,2-Dibromoethane	49.3800	5.0	50.0000		98.8	69 - 123			
1,2-Dichlorobenzene	51.3400	5.0	50.0000		103	81 - 114			
1,2-Dichloroethane	45.7300	5.0	50.0000		91.5	71 - 119			
1,2-Dichloropropane	45.2900	5.0	50.0000		90.6	71 - 118			
1,3,5-Trimethylbenzene	49.4500	5.0	50.0000		98.9	81 - 120			
1,3-Dichlorobenzene	50.9400	5.0	50.0000		102	80 - 115			
1,3-Dichloropropane	47.1400	5.0	50.0000		94.3	77 - 117			
1,4-Dichlorobenzene	50.9700	5.0	50.0000		102	80 - 115			
2,2-Dichloropropane	42.3700	5.0	50.0000		84.7	58 - 141			
2-Chlorotoluene	47.2200	5.0	50.0000		94.4	78 - 120			
4-Chlorotoluene	47.7500	5.0	50.0000		95.5	79 - 119			
4-Isopropyltoluene	53.0200	5.0	50.0000		106	81 - 125			
Benzene	93.9400	5.0	100.000		93.9	73 - 116			
Bromobenzene	48.8400	5.0	50.0000		97.7	78 - 115			
Bromochloromethane	47.7400	5.0	50.0000		95.5	66 - 121			
Bromodichloromethane	47.5100	5.0	50.0000		95.0	73 - 120			
Bromoform	52.5900	5.0	50.0000		105	68 - 124			
Bromomethane	51.0300	5.0	50.0000		102	26 - 163			
Carbon disulfide	31.0800	5.0	50.0000		62.2	43 - 142			
Carbon tetrachloride	49.8500	5.0	50.0000		99.7	67 - 130			
Chlorobenzene	50.2000	5.0	50.0000		100	82 - 114			
Chloroethane	39.5200	5.0	50.0000		79.0	40 - 151			
Chloroform	43.7900	5.0	50.0000		87.6	68 - 124			
Chloromethane	36.3300	5.0	50.0000		72.7	18 - 144			
cis-1,2-Dichloroethene	48.1500	5.0	50.0000		96.3	66 - 125			
cis-1,3-Dichloropropene	45.3700	5.0	50.0000		90.7	77 - 120			
Di-isopropyl ether	40.0500	5.0	50.0000		80.1	56 - 132			
Dibromochloromethane	49.3700	5.0	50.0000		98.7	76 - 118			
Dibromomethane	48.7100	5.0	50.0000		97.4	69 - 122			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
LCS (B5D0037-BS1) - Continued				Prepared: 4/2/2015 Analyzed: 4/2/2015					
Dichlorodifluoromethane	47.8000	5.0	50.0000		95.6	0 - 155			
Ethyl Acetate	404.360	50	500.000		80.9	31 - 137			
Ethyl Ether	404.810	50	500.000		81.0	47 - 150			
Ethyl tert-butyl ether	43.9600	5.0	50.0000		87.9	63 - 134			
Ethylbenzene	97.7400	5.0	100.000		97.7	79 - 115			
Freon-113	38.8000	5.0	50.0000		77.6	62 - 134			
Hexachlorobutadiene	59.3700	5.0	50.0000		119	71 - 121			
Isopropylbenzene	48.7000	5.0	50.0000		97.4	78 - 126			
m,p-Xylene	100.120	10	100.000		100	80 - 119			
Methylene chloride	49.7500	5.0	50.0000		99.5	56 - 129			
MTBE	43.2900	5.0	50.0000		86.6	61 - 124			
n-Butylbenzene	52.9500	5.0	50.0000		106	78 - 127			
n-Propylbenzene	49.0100	5.0	50.0000		98.0	77 - 128			
Naphthalene	51.8900	5.0	50.0000		104	61 - 141			
o-Xylene	99.8100	5.0	100.000		99.8	81 - 116			
sec-Butylbenzene	51.7100	5.0	50.0000		103	81 - 125			
Styrene	52.8200	5.0	50.0000		106	82 - 120			
tert-Amyl methyl ether	43.5900	5.0	50.0000		87.2	52 - 149			
tert-Butanol	170.130	100	250.000		68.1	26 - 160			
tert-Butylbenzene	50.9500	5.0	50.0000		102	80 - 123			
Tetrachloroethene	53.0900	5.0	50.0000		106	75 - 123			
Toluene	99.8300	5.0	100.000		99.8	75 - 119			
trans-1,2-Dichloroethene	46.9800	5.0	50.0000		94.0	62 - 127			
trans-1,3-Dichloropropene	46.7500	5.0	50.0000		93.5	68 - 121			
Trichloroethene	52.3500	5.0	50.0000		105	73 - 119			
Trichlorofluoromethane	37.0500	5.0	50.0000		74.1	47 - 157			
Vinyl acetate	367.450	50	500.000		73.5	20 - 136			
Vinyl chloride	36.9500	5.0	50.0000		73.9	27 - 147			
Surrogate: 1,2-Dichloroethane-d4	*47.85*		*50.0000*		*95.7*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*50.78*		*50.0000*		*102*	*20 - 173*			
Surrogate: Dibromofluoromethane	*47.81*		*50.0000*		*95.6*	*26 - 178*			
Surrogate: Toluene-d8	*51.59*		*50.0000*		*103*	*31 - 166*			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Matrix Spike (B5D0037-MS1)		**Source: 1501167-01**		Prepared: 4/2/2015 Analyzed: 4/2/2015					
1,1,1,2-Tetrachloroethane	46.2000	5.0	50.0000	ND	92.4	45 - 122			
1,1,1-Trichloroethane	47.0600	5.0	50.0000	ND	94.1	46 - 131			
1,1,2,2-Tetrachloroethane	42.9300	5.0	50.0000	ND	85.9	34 - 133			
1,1,2-Trichloroethane	41.7100	5.0	50.0000	ND	83.4	40 - 133			
1,1-Dichloroethane	41.8900	5.0	50.0000	ND	83.8	50 - 120			
1,1-Dichloroethene	40.9500	5.0	50.0000	ND	81.9	42 - 130			
1,1-Dichloropropene	52.1500	5.0	50.0000	ND	104	49 - 125			
1,2,3-Trichloropropane	41.9600	5.0	50.0000	ND	83.9	42 - 130			
1,2,3-Trichlorobenzene	37.1300	5.0	50.0000	ND	74.3	2 - 136			
1,2,4-Trichlorobenzene	38.4600	5.0	50.0000	ND	76.9	6 - 137			
1,2,4-Trimethylbenzene	47.2900	5.0	50.0000	ND	94.6	37 - 129			
1,2-Dibromo-3-chloropropane	40.2200	10	50.0000	ND	80.4	36 - 135			
1,2-Dibromoethane	45.5400	5.0	50.0000	ND	91.1	43 - 129			
1,2-Dichlorobenzene	44.9300	5.0	50.0000	ND	89.9	31 - 129			
1,2-Dichloroethane	41.5800	5.0	50.0000	ND	83.2	50 - 122			
1,2-Dichloropropane	42.4500	5.0	50.0000	ND	84.9	51 - 119			
1,3,5-Trimethylbenzene	48.2100	5.0	50.0000	ND	96.4	38 - 130			
1,3-Dichlorobenzene	46.6300	5.0	50.0000	ND	93.3	31 - 128			
1,3-Dichloropropane	42.4700	5.0	50.0000	ND	84.9	52 - 122			
1,4-Dichlorobenzene	46.4200	5.0	50.0000	ND	92.8	31 - 128			
2,2-Dichloropropane	47.1800	5.0	50.0000	ND	94.4	42 - 140			
2-Chlorotoluene	46.7500	5.0	50.0000	ND	93.5	38 - 129			
4-Chlorotoluene	46.4400	5.0	50.0000	ND	92.9	38 - 128			
4-Isopropyltoluene	48.8600	5.0	50.0000	ND	97.7	31 - 137			
Benzene	89.6400	5.0	100.000	ND	89.6	51 - 117			
Bromobenzene	47.8500	5.0	50.0000	ND	95.7	41 - 125			
Bromochloromethane	43.9300	5.0	50.0000	ND	87.9	47 - 123			
Bromodichloromethane	43.3900	5.0	50.0000	ND	86.8	50 - 122			
Bromoform	46.6500	5.0	50.0000	ND	93.3	39 - 131			
Bromomethane	39.7500	5.0	50.0000	ND	79.5	10 - 154			
Carbon disulfide	33.7100	5.0	50.0000	ND	67.4	24 - 138			
Carbon tetrachloride	50.5700	5.0	50.0000	ND	101	44 - 131			
Chlorobenzene	47.1600	5.0	50.0000	ND	94.3	46 - 123			
Chloroethane	41.2700	5.0	50.0000	ND	82.5	27 - 143			
Chloroform	42.2300	5.0	50.0000	ND	84.5	50 - 124			
Chloromethane	33.1800	5.0	50.0000	ND	66.4	8 - 139			
cis-1,2-Dichloroethene	45.9900	5.0	50.0000	ND	92.0	48 - 125			
cis-1,3-Dichloropropene	42.1900	5.0	50.0000	ND	84.4	51 - 123			
Di-isopropyl ether	38.9500	5.0	50.0000	ND	77.9	45 - 125			
Dibromochloromethane	44.7200	5.0	50.0000	ND	89.4	48 - 124			
Dibromomethane	44.9100	5.0	50.0000	ND	89.8	48 - 124			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Matrix Spike (B5D0037-MS1) - Continued		**Source: 1501167-01**		Prepared: 4/2/2015 Analyzed: 4/2/2015					
Dichlorodifluoromethane	46.5100	5.0	50.0000	ND	93.0	0 - 150			
Ethyl Acetate	382.060	50	500.000	ND	76.4	0 - 140			
Ethyl Ether	366.680	50	500.000	ND	73.3	36 - 142			
Ethyl tert-butyl ether	41.3400	5.0	50.0000	ND	82.7	46 - 133			
Ethylbenzene	92.8700	5.0	100.000	ND	92.9	46 - 123			
Freon-113	41.3300	5.0	50.0000	ND	82.7	38 - 137			
Hexachlorobutadiene	38.8200	5.0	50.0000	ND	77.6	5 - 132			
Isopropylbenzene	50.8200	5.0	50.0000	ND	102	43 - 132			
m,p-Xylene	95.6200	10	100.000	ND	95.6	45 - 128			
Methylene chloride	48.0200	5.0	50.0000	ND	96.0	37 - 126			
MTBE	40.6100	5.0	50.0000	ND	81.2	46 - 125			
n-Butylbenzene	44.0700	5.0	50.0000	ND	88.1	24 - 138			
n-Propylbenzene	49.0700	5.0	50.0000	ND	98.1	40 - 133			
Naphthalene	38.8000	5.0	50.0000	ND	77.6	10 - 149			
o-Xylene	93.2200	5.0	100.000	ND	93.2	45 - 125			
sec-Butylbenzene	47.7900	5.0	50.0000	ND	95.6	33 - 136			
Styrene	48.5500	5.0	50.0000	ND	97.1	43 - 128			
tert-Amyl methyl ether	40.4400	5.0	50.0000	ND	80.9	35 - 147			
tert-Butanol	194.420	100	250.000	ND	77.8	0 - 208			
tert-Butylbenzene	49.4300	5.0	50.0000	ND	98.9	36 - 133			
Tetrachloroethene	53.5000	5.0	50.0000	ND	107	41 - 129			
Toluene	94.3100	5.0	100.000	ND	94.3	49 - 124			
trans-1,2-Dichloroethene	46.9900	5.0	50.0000	ND	94.0	44 - 126			
trans-1,3-Dichloropropene	41.7300	5.0	50.0000	ND	83.5	42 - 125			
Trichloroethene	53.0400	5.0	50.0000	ND	106	38 - 139			
Trichlorofluoromethane	40.7100	5.0	50.0000	ND	81.4	30 - 157			
Vinyl acetate	324.350	50	500.000	ND	64.9	0 - 132			
Vinyl chloride	39.2100	5.0	50.0000	ND	78.4	19 - 142			
Surrogate: 1,2-Dichloroethane-d4	*48.37*		*50.0000*		*96.7*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*50.44*		*50.0000*		*101*	*20 - 173*			
Surrogate: Dibromofluoromethane	*49.27*		*50.0000*		*98.5*	*26 - 178*			
Surrogate: Toluene-d8	*50.26*		*50.0000*		*101*	*31 - 166*			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Matrix Spike Dup (B5D0037-MSD1)		**Source: 1501167-01**		Prepared: 4/2/2015 Analyzed: 4/2/2015					
1,1,1,2-Tetrachloroethane	44.7500	5.0	50.0000	ND	89.5	45 - 122	3.19	20	
1,1,1-Trichloroethane	40.1400	5.0	50.0000	ND	80.3	46 - 131	15.9	20	
1,1,2,2-Tetrachloroethane	41.5300	5.0	50.0000	ND	83.1	34 - 133	3.32	20	
1,1,2-Trichloroethane	42.6300	5.0	50.0000	ND	85.3	40 - 133	2.18	20	
1,1-Dichloroethane	36.4200	5.0	50.0000	ND	72.8	50 - 120	14.0	20	
1,1-Dichloroethene	33.3100	5.0	50.0000	ND	66.6	42 - 130	20.6	20	R
1,1-Dichloropropene	46.0400	5.0	50.0000	ND	92.1	49 - 125	12.4	20	
1,2,3-Trichloropropane	40.6200	5.0	50.0000	ND	81.2	42 - 130	3.25	20	
1,2,3-Trichlorobenzene	39.3000	5.0	50.0000	ND	78.6	2 - 136	5.68	20	
1,2,4-Trichlorobenzene	39.3400	5.0	50.0000	ND	78.7	6 - 137	2.26	20	
1,2,4-Trimethylbenzene	43.6800	5.0	50.0000	ND	87.4	37 - 129	7.94	20	
1,2-Dibromo-3-chloropropane	43.5400	10	50.0000	ND	87.1	36 - 135	7.93	20	
1,2-Dibromoethane	45.1500	5.0	50.0000	ND	90.3	43 - 129	0.860	20	
1,2-Dichlorobenzene	42.2900	5.0	50.0000	ND	84.6	31 - 129	6.05	20	
1,2-Dichloroethane	40.6600	5.0	50.0000	ND	81.3	50 - 122	2.24	20	
1,2-Dichloropropane	40.5200	5.0	50.0000	ND	81.0	51 - 119	4.65	20	
1,3,5-Trimethylbenzene	43.6600	5.0	50.0000	ND	87.3	38 - 130	9.91	20	
1,3-Dichlorobenzene	42.7300	5.0	50.0000	ND	85.5	31 - 128	8.73	20	
1,3-Dichloropropane	42.1800	5.0	50.0000	ND	84.4	52 - 122	0.685	20	
1,4-Dichlorobenzene	43.2300	5.0	50.0000	ND	86.5	31 - 128	7.12	20	
2,2-Dichloropropane	39.5400	5.0	50.0000	ND	79.1	42 - 140	17.6	20	
2-Chlorotoluene	42.0100	5.0	50.0000	ND	84.0	38 - 129	10.7	20	
4-Chlorotoluene	42.2100	5.0	50.0000	ND	84.4	38 - 128	9.54	20	
4-Isopropyltoluene	44.6600	5.0	50.0000	ND	89.3	31 - 137	8.98	20	
Benzene	84.3900	5.0	100.000	ND	84.4	51 - 117	6.03	20	
Bromobenzene	44.5200	5.0	50.0000	ND	89.0	41 - 125	7.21	20	
Bromochloromethane	40.7200	5.0	50.0000	ND	81.4	47 - 123	7.58	20	
Bromodichloromethane	41.7100	5.0	50.0000	ND	83.4	50 - 122	3.95	20	
Bromoform	46.7800	5.0	50.0000	ND	93.6	39 - 131	0.278	20	
Bromomethane	34.9400	5.0	50.0000	ND	69.9	10 - 154	12.9	20	
Carbon disulfide	26.6200	5.0	50.0000	ND	53.2	24 - 138	23.5	20	R
Carbon tetrachloride	44.9900	5.0	50.0000	ND	90.0	44 - 131	11.7	20	
Chlorobenzene	44.4000	5.0	50.0000	ND	88.8	46 - 123	6.03	20	
Chloroethane	33.4200	5.0	50.0000	ND	66.8	27 - 143	21.0	20	R
Chloroform	37.9300	5.0	50.0000	ND	75.9	50 - 124	10.7	20	
Chloromethane	32.3100	5.0	50.0000	ND	64.6	8 - 139	2.66	20	
cis-1,2-Dichloroethene	40.8900	5.0	50.0000	ND	81.8	48 - 125	11.7	20	
cis-1,3-Dichloropropene	41.5400	5.0	50.0000	ND	83.1	51 - 123	1.55	20	
Di-isopropyl ether	37.0900	5.0	50.0000	ND	74.2	45 - 125	4.89	20	
Dibromochloromethane	44.3100	5.0	50.0000	ND	88.6	48 - 124	0.921	20	
Dibromomethane	42.8200	5.0	50.0000	ND	85.6	48 - 124	4.76	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Matrix Spike Dup (B5D0037-MSD1) - Continued		**Source: 1501167-01**		Prepared: 4/2/2015 Analyzed: 4/2/2015					
Dichlorodifluoromethane	43.1300	5.0	50.0000	ND	86.3	0 - 150	7.54	20	
Ethyl Acetate	388.750	50	500.000	ND	77.8	0 - 140	1.74	20	
Ethyl Ether	354.550	50	500.000	ND	70.9	36 - 142	3.36	20	
Ethyl tert-butyl ether	41.3700	5.0	50.0000	ND	82.7	46 - 133	0.0725	20	
Ethylbenzene	87.6400	5.0	100.000	ND	87.6	46 - 123	5.79	20	
Freon-113	34.2300	5.0	50.0000	ND	68.5	38 - 137	18.8	20	
Hexachlorobutadiene	37.9600	5.0	50.0000	ND	75.9	5 - 132	2.24	20	
Isopropylbenzene	45.0100	5.0	50.0000	ND	90.0	43 - 132	12.1	20	
m,p-Xylene	91.4500	10	100.000	ND	91.4	45 - 128	4.46	20	
Methylene chloride	42.7600	5.0	50.0000	ND	85.5	37 - 126	11.6	20	
MTBE	41.0300	5.0	50.0000	ND	82.1	46 - 125	1.03	20	
n-Butylbenzene	40.6900	5.0	50.0000	ND	81.4	24 - 138	7.98	20	
n-Propylbenzene	43.5100	5.0	50.0000	ND	87.0	40 - 133	12.0	20	
Naphthalene	43.9500	5.0	50.0000	ND	87.9	10 - 149	12.4	20	
o-Xylene	92.1100	5.0	100.000	ND	92.1	45 - 125	1.20	20	
sec-Butylbenzene	43.0500	5.0	50.0000	ND	86.1	33 - 136	10.4	20	
Styrene	47.1200	5.0	50.0000	ND	94.2	43 - 128	2.99	20	
tert-Amyl methyl ether	41.4100	5.0	50.0000	ND	82.8	35 - 147	2.37	20	
tert-Butanol	193.570	100	250.000	ND	77.4	0 - 208	0.438	20	
tert-Butylbenzene	44.6600	5.0	50.0000	ND	89.3	36 - 133	10.1	20	
Tetrachloroethene	48.3400	5.0	50.0000	ND	96.7	41 - 129	10.1	20	
Toluene	89.4900	5.0	100.000	ND	89.5	49 - 124	5.24	20	
trans-1,2-Dichloroethene	41.2100	5.0	50.0000	ND	82.4	44 - 126	13.1	20	
trans-1,3-Dichloropropene	40.6000	5.0	50.0000	ND	81.2	42 - 125	2.75	20	
Trichloroethene	47.9100	5.0	50.0000	ND	95.8	38 - 139	10.2	20	
Trichlorofluoromethane	31.7200	5.0	50.0000	ND	63.4	30 - 157	24.8	20	R
Vinyl acetate	295.610	50	500.000	ND	59.1	0 - 132	9.27	20	
Vinyl chloride	34.3000	5.0	50.0000	ND	68.6	19 - 142	13.4	20	
Surrogate: 1,2-Dichloroethane-d4	*45.79*		*50.0000*		*91.6*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*52.14*		*50.0000*		*104*	*20 - 173*			
Surrogate: Dibromofluoromethane	*46.25*		*50.0000*		*92.5*	*26 - 178*			
Surrogate: Toluene-d8	*51.34*		*50.0000*		*103*	*31 - 166*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
L3	Laboratory control sample outside in-house established limits but within method criteria.
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)
TX1	TX-NELAP (TCEQ)

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.

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

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 2
Date Received 04/01/2015
Date Reported 04/02/2015

Job Number	Order Date	Client
76464	04/01/2015	ATL

Project ID: 1501144
Project Name: PO# SC09478

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Project ID: 1501144
Date Received 04/01/2015
Date Reported 04/02/2015

Job Number	Order Date	Client
76464	04/01/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 04/01/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76464.01	1501144-09	03/31/2015	Soil	1
76464.02	1501144-16	03/31/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/02/2015	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 2

Project ID: 1501144
Project Name: PO# SC09478

AETL Job Number	Submitted	Client
76464	04/01/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0401151C1

Our Lab I.D.			Method Blank	76464.01	76464.02		
Client Sample I.D.				1501144-09	1501144-16		
Date Sampled				03/31/2015	03/31/2015		
Date Prepared			04/01/2015	04/01/2015	04/01/2015		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			04/02/2015	04/02/2015	04/02/2015		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	ND	1.27	2.16		

QUALITY CONTROL REPORT

QC Batch No: 0401151C1; Dup or Spiked Sample: 76465.01; LCS: Clean Sand; QC Prepared: 04/01/2015; QC Analyzed: 04/02/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.32	1.00	4.57 #	225	1.00	4.14 #	182	21.1	80-120	<15

QC Batch No: 0401151C1; Dup or Spiked Sample: 76465.01; LCS: Clean Sand; QC Prepared: 04/01/2015; QC Analyzed: 04/02/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	1.08	108	1.00	1.08	108	<1	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76464

SUBCONTRACT ORDER

Work Order: 1501144

SENDING LABORATORY:	RECEIVING LABORATORY:
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09478 - RUSH TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501144-09 / SG-1-0.5 76464-01	**Soil**		**03/31/15 07:50**	**Report Arsenic only**
6020_SUB	**04/02/15 15:00**	09/27/15 07:50		
[Individual Metals by ICPMS]				
1-Glass Jar - 2 oz				
ATL Lab#: 1501144-16 / SG-2-0.5 76464.02	**Soil**		**03/31/15 08:38**	
6020_SUB	**04/02/15 15:00**	09/27/15 08:38		
[Individual Metals by ICPMS]				
1-Glass Jar - 2 oz				

Released By	Date	Received By	Date
4/1/15 1132		Sanglap	4/1/15 1132
Released By	Date	Received By	Date
Sanglap 4/1/15	1310	Arada	04/01/15 1310

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 5
(1 7)

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt				
	Condition	Y	N	Condition	Y	N
Client (ATL)	1. CHILLED	✓		5. # OF SAMPLES MATCH COC	✓	
FedEx OnTrac	2. HEADSPACE (VOA)			6. PRESERVED	✓	
GSO	3. CONTAINER INTACT	✓		7. COOLER TEMP, deg C:	5.3, 5.5	
Other:	4. SEALED	✓				

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400	
		City: Los Angeles	State: CA	Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wilms
Quote #:
PO #:
Special Instructions/Comments: TAT's on all SGs ~~SG~~ 5', 10', +15' samples

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=HA2SO3	REMARKS
1	1501144-1	SG-2-2	3/31/15	8:36																										1	5	4		Hold
2	-2	SG-2-7.5																												1		4		
3	-3	SG-2-3																									3			1		4		
4	-4	SG-2-5'		8:38												X	X											5		7	5	1/2		
5	-5	SG-2-10'		8:48												X	X											5		7	5	1/2		
6	-6	SG-2-15'		9:00												X	X											5		7	5	1/2		
7	-7	SG-1-10'		8:15												X	X											5		7	5	1/2		
8	-8	SG-1-15'		8:25												X	X											5		7	5	1/2		
9																																		
10																																		

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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1				Edward Rodriguez	3-31-15	1230
2	Edward Rodriguez	3-31-15	1340		3/31/15	1340
3						

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 5
2 7

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715		
Method of Transport		Sample Conditions Upon Receipt				
		Condition	Y	N	Condition	Y	N
Client / ATL		1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx / OnTrac		2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: / Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: / State: / Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. W.
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Select Aqueous Matrix	TAT	Container #	Container Type	Container Material	REMARKS
1	1501144-9	SG-1-0.5	3/31/15	7:50	X							2	1	5	1	
2	-10	SG-1-1														Hold
3	-11	SG-1-1.5														
4	-12	SG-1-2														
5	-13	SG-1-2.5														
6	-14	SG-1-3														
7	-15	SG-1-5'		7:50				XX			5	2	7	5	2	
8	-16	SG-2-0.5		8:38	X							2	1	5	1	
9	-17	SG-2-1														Hold
10	-18	SG-2-1.5														

Encircle or Write Requested Analysis
Encircle Sample Matrix
Soil / Select Solid Matrix / Select Water Matrix / Select Wastewater Matrix / Select Aqueous Matrix / Enter Custom Matrix
Container: # / Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Ziplar; 7 = Canister / Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2SO3

QA/QC: Routine / Caltrans / Legal / RWQCB Level IV

TERMS

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   - 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)
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   - 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.

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

John Gonzales
Submitter Print Name / Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			ECR Edward Rodriguez	3-31-15	1230
ECR Edward Rodriguez	3-31-15	1340	[signature]	3/31/15	1340
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 2 (2 of 7)

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715	
Method of Transport		Sample Conditions Upon Receipt			
		Condition	Y	N	Condition	Y	N
Client / ATL		1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx / OnTrac		2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L.W.
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

TAT

Container: # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	Soil	TAT	#	Type	Material	REMARKS
1	1501144-19	BD24-W0.5	3/31/15	8:29		X	X	2	1	5	1	
2	-20	BD24-W1										Hold
3	-21	BD24-W1.5										
4	-22	BD24-W2										
5	-23	BD24-W2.5										
6	-24	BD24-W3		↓								↓
7	-25	BD24-N0.5		10:30		X	X	2	1	5	1	
8	-26	BD24-N1										Hold
9	-27	BD24-N1.5										
10	-28	BD24-N2	↓									↓

TERMS

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   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
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As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

John Gonzales — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
ECR Edward Rodriguez	3-31-15	1340	ECR Edward Rodriguez	3-31-15	1230
			FEDEX	3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page 4 of 7

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250			Tel: (213) 213-9400
	City: Los Angeles	State: CA	Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: / Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: Luis B
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis ×6; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOCs and Oxygenates (8260); VOC's (8260); Enter Custom Analysis ×4

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Soil	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	150114-29	BD23-E 0.5	3/31/15	8:25		X					X	2	1	5	1		
2	-30	BD23-E1															Hold
3	-31	BD23-E1.5															
4	-32	BD23-E2															
5	-33	BD23-E2.5															
6	-34	BD23-E3		↓													↓
7	-35	BD23-S0.5		8:5		X					X	2	1	5	1		
8	-36	BD23-S1															Hold
9	-37	BD23-S1.5	↓														↓
10	-38	BD23-S2		↓													

QA/QC: Routine / Caltrans / Legal / RWQCB Level IV

TERMS

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John Gonzales — Submitter Print Name / Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
ELR Edward Rodriguez	3-31-15	1230	ELR Edward Rodriguez	3.31-15	1230
ELR Edward Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 5 of 7

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400	
	City: Los Angeles	State: CA	Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L.W.
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Soil	TAT	#	Container Type	Container Material	Preservative	REMARKS
1	15011144-39	BD23-S2.5	3/31/15	6:53		X					X	2	1	5	1		
2	-40	BD23-S3	↓														Hold
3	-41	Dup4-0.5	3/31/15	—		X					X	5	1	5	1		
4	-42	BD24-S0.5		8:39		X					X	2	1	5	1		
5	-43	BD24-S1															
6	-44	BD24-S1.5															
7	-45	BD24-S2															
8	-46	BD24-S2.5															
9	-47	BD24-S3															
~~10~~		BD24-W0.5	↓	12:00													

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOCs and Oxygenates (8260); VOC's (8260); Enter Custom Analysis
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
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Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine / Caltrans / Legal / RWQCB / Level IV

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John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			Edward Rodriguez	3-31-15	1230
ECR Edward Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 7

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: [signature]
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Encircle or Write Requested Analysis: Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Encircle Sample Matrix: Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (AcO)2; 6=NaOH; 7=NA2S2O3	QA/QC: Routine / Caltrans / Legal / RWQCB Level IV	REMARKS
1	1501144-48	BD24-W0.5	3/31/15	8:39		X					X						2	1	5	1			
2	-49	BD24-W1																					Hold
3	-50	BD24-W1.5																					
4	-51	BD24-W2																					
5	-52	BD24-W2.5																					
6	-53	BD24-W3																					
7	-54	BD24-E0.5		11:55		X					X						2	1	5	1			
8	-55	BD24-E1																					Hold
9	-56	BD24-E1.5																					
10	-57	BD24-E2																					

TERMS

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John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature] Edward Rodriguez	3-31-15	1340	[signature] Edward Rodriguez	3-31-15	1230
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			FEDEX	3/31/15	1340
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 7

Instruction: Complete all shaded areas.

For Laboratory Use Only			ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt	
		Condition Y N	Condition Y N
Client ATL		1. CHILLED	5. # OF SAMPLES MATCH COC
FedEx OnTrac		2. HEADSPACE (VOA)	6. PRESERVED
GSO		3. CONTAINER INTACT	7. COOLER TEMP, deg C:
Other:		4. SEALED	

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 3250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Ste 3250
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wilkes
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOCs and Oxygenates (8260); VOC's (8260); Enter Custom Analysis
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
TAT
Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister | Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3
QA/QC: Routine, Caltrans, Legal, RWQCB Level IV
REMARKS

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	Soil	TAT	#	Type	Material	Preservative
1	15015144-57	BD24-(N&S)-0.5	3/31/15				X	X	2	4	5		
2	1 -57	Dup 5	3/31/15			X		1	3	1	5		
3													
4													
5													
6													
7													
8													
9													
10													

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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			Edward Rodriguez	3-31-15	12:30
Edward Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES

April 21, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501144

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on March 31, 2015 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,

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

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/21/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DUP10	1501144-62	Soil	3/31/15 8:38	3/31/15 12:30

CASE NARRATIVE

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/21/2015

Client Sample ID DUP10

Lab ID: 1501144-62

Gasoline Range Organics by EPA 8015B (Modified) (5035) **Analyst: BT**

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Gasoline Range Organics		ND	0.89	1	B5D0458	04/02/2015	04/15/15 16:14	H4
Surrogate: 4-Bromofluorobenzene	*120 %*		*37 - 153*		B5D0458	04/02/2015	*04/15/15 16:14*	H4

Diesel Range Organics by EPA 8015B **Analyst: CR**

Analyte		Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO		ND	10	1	B5D0528	04/17/2015	04/17/15 13:46	H4
ORO		ND	10	1	B5D0528	04/17/2015	04/17/15 13:46	H4
Surrogate: p-Terphenyl	*88.7 %*		*49 - 142*		B5D0528	04/17/2015	*04/17/15 13:46*	H4

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/21/2015

QUALITY CONTROL SECTION

Gasoline Range Organics by EPA 8015B (Modified) (5035) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0458 - GCVOA_S									
Blank (B5D0458-BLK1)				Prepared: 4/15/2015 Analyzed: 4/15/2015					
Gasoline Range Organics	ND	1.0			NR				
Surrogate: 4-Bromofluorobenzene	*0.2249*		*0.200000*		*112*	*37 - 153*			
LCS (B5D0458-BS1)				Prepared: 4/15/2015 Analyzed: 4/15/2015					
Gasoline Range Organics	5.20500	1.0	5.00000		104	70 - 130			
Surrogate: 4-Bromofluorobenzene	*0.2248*		*0.200000*		*112*	*37 - 153*			
Matrix Spike (B5D0458-MS1)		**Source: 1501316-02**		Prepared: 4/15/2015 Analyzed: 4/15/2015					
Gasoline Range Organics	5.03200	1.0	5.00000	ND	101	20 - 130			
Surrogate: 4-Bromofluorobenzene	*0.2313*		*0.200000*		*116*	*37 - 153*			
Matrix Spike Dup (B5D0458-MSD1)		**Source: 1501316-02**		Prepared: 4/15/2015 Analyzed: 4/15/2015					
Gasoline Range Organics	4.95300	1.0	5.00000	ND	99.1	20 - 130	1.58	20	
Surrogate: 4-Bromofluorobenzene	*0.2284*		*0.200000*		*114*	*37 - 153*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/21/2015

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0528 - GCSEMI_DRO_S									
Blank (B5D0528-BLK1)					Prepared: 4/17/2015 Analyzed: 4/17/2015				
DRO	ND	10			NR				
ORO	ND	10			NR				
Surrogate: p-Terphenyl	*73.85*		*82.6000*		*89.4*	*49 - 142*			
LCS (B5D0528-BS1)					Prepared: 4/17/2015 Analyzed: 4/17/2015				
DRO	725.340	10	1000.00		72.5	48 - 155			
Surrogate: p-Terphenyl	*77.81*		*82.6000*		*94.2*	*49 - 142*			
Matrix Spike (B5D0528-MS1)		**Source: 1501316-02**			Prepared: 4/17/2015 Analyzed: 4/17/2015				
DRO	646.060	10	1000.00	ND	64.6	30 - 173			
Surrogate: p-Terphenyl	*73.05*		*82.6000*		*88.4*	*49 - 142*			
Matrix Spike Dup (B5D0528-MSD1)		**Source: 1501316-02**			Prepared: 4/17/2015 Analyzed: 4/17/2015				
DRO	623.770	10	1000.00	ND	62.4	30 - 173	3.51	20	
Surrogate: p-Terphenyl	*69.50*		*82.6000*		*84.1*	*49 - 142*			

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/21/2015

Notes and Definitions

H4	Change order analysis requested past the sample holding time.
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)
TX1	TX-NELAP (TCEQ)

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.

May 07, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501144

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on March 31, 2015 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,

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

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/07/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD23 (E,S,W)-0.5	1501144-63	Soil	3/31/15 0:00	3/31/15 12:30

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/07/2015

Client Sample ID BD23 (E,S,W)-0.5
Lab ID: 1501144-63

Organochlorine Pesticides by EPA 8081 — **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
4,4´-DDE [2C]	**2.3**	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
4,4´-DDT	ND	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Aldrin	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
alpha-BHC	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
alpha-Chlordane [2C]	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
beta-BHC	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Chlordane	**11**	8.5	1	B5E0120	05/05/2015	05/06/15 12:59	H4
delta-BHC	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Dieldrin [2C]	**2.3**	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Endosulfan I	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Endosulfan II	ND	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Endosulfan sulfate	ND	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Endrin	ND	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Endrin aldehyde	ND	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Endrin ketone	ND	2.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
gamma-BHC	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
gamma-Chlordane [2C]	**1.1**	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Heptachlor	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Heptachlor epoxide	ND	1.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Methoxychlor	ND	5.0	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Toxaphene	ND	50	1	B5E0120	05/05/2015	05/06/15 12:59	H4
Surrogate: Decachlorobiphenyl	*78.7 %*	*16 - 137*		B5E0120	05/05/2015	*05/06/15 12:59*	H4
Surrogate: Tetrachloro-m-xylene	*55.5 %*	*16 - 105*		B5E0120	05/05/2015	*05/06/15 12:59*	H4

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/07/2015

QUALITY CONTROL SECTION

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0120 - GCSEMI_PCB/PEST_S									
Blank (B5E0120-BLK1)				Prepared: 5/5/2015 Analyzed: 5/6/2015					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0120 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5E0120-BLK1) - Continued				Prepared: 5/5/2015 Analyzed: 5/6/2015					
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*14.37*		*16.6667*		*86.2*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*14.21*		*16.6667*		*85.3*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*13.12*		*16.6667*		*78.7*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.89*		*16.6667*		*83.3*	*16 - 105*			
LCS (B5E0120-BS1)				Prepared: 5/5/2015 Analyzed: 5/6/2015					
4,4´-DDD	12.6690	2.0	16.6667		76.0	58 - 100			
4,4´-DDD [2C]	13.2865	2.0	16.6667		79.7	58 - 100			
4,4´-DDE	13.8520	2.0	16.6667		83.1	65 - 99			
4,4´-DDE [2C]	15.1308	2.0	16.6667		90.8	65 - 99			
4,4´-DDT	13.2245	2.0	16.6667		79.3	39 - 116			
4,4´-DDT [2C]	12.7502	2.0	16.6667		76.5	39 - 116			
Aldrin	13.6367	1.0	16.6667		81.8	57 - 94			
Aldrin [2C]	14.8537	1.0	16.6667		89.1	57 - 94			
alpha-BHC	12.7965	1.0	16.6667		76.8	58 - 84			
alpha-BHC [2C]	13.6047	1.0	16.6667		81.6	58 - 84			
alpha-Chlordane	13.5685	1.0	16.6667		81.4	58 - 96			
alpha-Chlordane [2C]	14.9865	1.0	16.6667		89.9	58 - 96			
beta-BHC	12.5292	1.0	16.6667		75.2	58 - 87			
beta-BHC [2C]	13.1132	1.0	16.6667		78.7	58 - 87			
delta-BHC	10.6295	1.0	16.6667		63.8	18 - 75			
delta-BHC [2C]	11.4105	1.0	16.6667		68.5	18 - 75			
Dieldrin	13.3633	2.0	16.6667		80.2	62 - 94			
Dieldrin [2C]	14.2755	2.0	16.6667		85.7	62 - 94			
Endosulfan I	12.6458	1.0	16.6667		75.9	58 - 90			
Endosulfan I [2C]	13.8643	1.0	16.6667		83.2	58 - 90			
Endosulfan II	12.9315	2.0	16.6667		77.6	63 - 95			
Endosulfan II [2C]	13.8712	2.0	16.6667		83.2	63 - 95			
Endosulfan sulfate	14.9145	2.0	16.6667		89.5	59 - 89			L3
Endosulfan Sulfate [2C]	15.4017	2.0	16.6667		92.4	59 - 89			L3
Endrin	13.4353	2.0	16.6667		80.6	64 - 96			
Endrin [2C]	14.1898	2.0	16.6667		85.1	64 - 96			
Endrin aldehyde	12.8445	2.0	16.6667		77.1	65 - 95			
Endrin aldehyde [2C]	13.9615	2.0	16.6667		83.8	65 - 95			
Endrin ketone	13.5987	2.0	16.6667		81.6	59 - 101			
Endrin ketone [2C]	13.7345	2.0	16.6667		82.4	59 - 101			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0120 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5E0120-BS1) - Continued				Prepared: 5/5/2015 Analyzed: 5/6/2015					
gamma-BHC	13.1577	1.0	16.6667		78.9	63 - 89			
gamma-BHC [2C]	14.1028	1.0	16.6667		84.6	63 - 89			
gamma-Chlordane	13.5772	1.0	16.6667		81.5	61 - 95			
gamma-Chlordane [2C]	14.7743	1.0	16.6667		88.6	61 - 95			
Heptachlor	13.4937	1.0	16.6667		81.0	65 - 102			
Heptachlor [2C]	12.4195	1.0	16.6667		74.5	65 - 102			
Heptachlor epoxide	13.6640	1.0	16.6667		82.0	61 - 95			
Heptachlor epoxide [2C]	14.6857	1.0	16.6667		88.1	61 - 95			
Methoxychlor	13.7663	5.0	16.6667		82.6	29 - 128			
Methoxychlor [2C]	10.9528	5.0	16.6667		65.7	29 - 128			
Surrogate: Decachlorobiphenyl	*13.90*		*16.6667*		*83.4*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*13.50*		*16.6667*		*81.0*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.20*		*16.6667*		*73.2*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.15*		*16.6667*		*78.9*	*16 - 105*			
Matrix Spike (B5E0120-MS1)		**Source: 1501532-43**		Prepared: 5/5/2015 Analyzed: 5/6/2015					
4,4´-DDD	11.7237	2.0	16.6667	ND	70.3	27 - 123			
4,4´-DDD [2C]	13.0280	2.0	16.6667	ND	78.2	27 - 123			
4,4´-DDE	16.1847	2.0	16.6667	3.77767	74.4	28 - 126			
4,4´-DDE [2C]	18.0917	2.0	16.6667	3.97267	84.7	28 - 126			
4,4´-DDT	14.3037	2.0	16.6667	2.56483	70.4	12 - 149			
4,4´-DDT [2C]	15.3938	2.0	16.6667	2.29633	78.6	12 - 149			
Aldrin	12.9132	1.0	16.6667	ND	77.5	29 - 116			
Aldrin [2C]	13.7610	1.0	16.6667	ND	82.6	29 - 116			
alpha-BHC	12.1943	1.0	16.6667	ND	73.2	27 - 104			
alpha-BHC [2C]	12.5143	1.0	16.6667	ND	75.1	27 - 104			
alpha-Chlordane	12.8358	1.0	16.6667	0.209500	75.8	14 - 130			
alpha-Chlordane [2C]	14.6647	1.0	16.6667	0.252667	86.5	14 - 130			
beta-BHC	11.6905	1.0	16.6667	ND	70.1	20 - 115			
beta-BHC [2C]	12.0808	1.0	16.6667	ND	72.5	20 - 115			
delta-BHC	9.69217	1.0	16.6667	ND	58.2	8 - 78			
delta-BHC [2C]	10.1148	1.0	16.6667	ND	60.7	8 - 78			
Dieldrin	12.3852	2.0	16.6667	ND	74.3	20 - 134			
Dieldrin [2C]	13.0912	2.0	16.6667	ND	78.5	20 - 134			
Endosulfan I	11.6600	1.0	16.6667	ND	70.0	27 - 114			
Endosulfan I [2C]	12.6407	1.0	16.6667	ND	75.8	27 - 114			
Endosulfan II	11.0543	2.0	16.6667	ND	66.3	16 - 125			
Endosulfan II [2C]	11.8740	2.0	16.6667	ND	71.2	16 - 125			
Endosulfan sulfate	11.1957	2.0	16.6667	ND	67.2	1 - 126			
Endosulfan Sulfate [2C]	11.5282	2.0	16.6667	ND	69.2	1 - 126			
Endrin	12.6688	2.0	16.6667	ND	76.0	33 - 122			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0120 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5E0120-MS1) - Continued		**Source: 1501532-43**		Prepared: 5/5/2015 Analyzed: 5/6/2015					
Endrin [2C]	13.4658	2.0	16.6667	ND	80.8	33 - 122			
Endrin aldehyde	9.01933	2.0	16.6667	ND	54.1	0 - 137			
Endrin aldehyde [2C]	9.05900	2.0	16.6667	ND	54.4	0 - 137			
Endrin ketone	10.8747	2.0	16.6667	ND	65.2	10 - 126			
Endrin ketone [2C]	11.6007	2.0	16.6667	ND	69.6	10 - 126			
gamma-BHC	12.2240	1.0	16.6667	ND	73.3	30 - 111			
gamma-BHC [2C]	12.8865	1.0	16.6667	ND	77.3	30 - 111			
gamma-Chlordane	13.0930	1.0	16.6667	0.339500	76.5	16 - 130			
gamma-Chlordane [2C]	14.2438	1.0	16.6667	0.380167	83.2	16 - 130			
Heptachlor	12.9995	1.0	16.6667	ND	78.0	34 - 127			
Heptachlor [2C]	12.7252	1.0	16.6667	ND	76.4	34 - 127			
Heptachlor epoxide	12.6290	1.0	16.6667	ND	75.8	19 - 130			
Heptachlor epoxide [2C]	13.5752	1.0	16.6667	ND	81.5	19 - 130			
Methoxychlor	12.3693	5.0	16.6667	ND	74.2	16 - 153			
Methoxychlor [2C]	11.5382	5.0	16.6667	ND	69.2	16 - 153			
Surrogate: Decachlorobiphenyl	*12.96*		*16.6667*		*77.8*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.60*		*16.6667*		*69.6*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*11.42*		*16.6667*		*68.5*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.18*		*16.6667*		*73.1*	*16 - 105*			
Matrix Spike (B5E0120-MS3)		**Source: 1501144-63**		Prepared: 5/5/2015 Analyzed: 5/6/2015					
4,4´-DDD	8.05833	2.0	16.6667	ND	48.3	27 - 123			
4,4´-DDD [2C]	9.62033	2.0	16.6667	ND	57.7	27 - 123			
4,4´-DDE	11.3685	2.0	16.6667	1.96867	56.4	28 - 126			
4,4´-DDE [2C]	13.2045	2.0	16.6667	2.33267	65.2	28 - 126			
4,4´-DDT	9.48250	2.0	16.6667	ND	56.9	12 - 149			
4,4´-DDT [2C]	10.5845	2.0	16.6667	ND	63.5	12 - 149			
Aldrin	9.64800	1.0	16.6667	ND	57.9	29 - 116			
Aldrin [2C]	10.5965	1.0	16.6667	ND	63.6	29 - 116			
alpha-BHC	9.03800	1.0	16.6667	ND	54.2	27 - 104			
alpha-BHC [2C]	10.4557	1.0	16.6667	ND	62.7	27 - 104			
alpha-Chlordane	9.74167	1.0	16.6667	0.804667	53.6	14 - 130			
alpha-Chlordane [2C]	11.7855	1.0	16.6667	0.916833	65.2	14 - 130			
beta-BHC	6.04783	1.0	16.6667	ND	36.3	20 - 115			
beta-BHC [2C]	6.31033	1.0	16.6667	ND	37.9	20 - 115			
delta-BHC	5.23800	1.0	16.6667	ND	31.4	8 - 78			
delta-BHC [2C]	5.77083	1.0	16.6667	ND	34.6	8 - 78			
Dieldrin	10.8675	2.0	16.6667	2.24350	51.7	20 - 134			
Dieldrin [2C]	12.1272	2.0	16.6667	2.26067	59.2	20 - 134			
Endosulfan I	8.46517	1.0	16.6667	ND	50.8	27 - 114			
Endosulfan I [2C]	9.21583	1.0	16.6667	ND	55.3	27 - 114			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
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Los Angeles , CA 90017	Reported : 05/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0120 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5E0120-MS3) - Continued		**Source: 1501144-63**		Prepared: 5/5/2015 Analyzed: 5/6/2015					
Endosulfan II	7.50183	2.0	16.6667	ND	45.0	16 - 125			
Endosulfan II [2C]	7.95950	2.0	16.6667	ND	47.8	16 - 125			
Endosulfan sulfate	6.71167	2.0	16.6667	ND	40.3	1 - 126			
Endosulfan Sulfate [2C]	7.32617	2.0	16.6667	ND	44.0	1 - 126			
Endrin	9.24467	2.0	16.6667	ND	55.5	33 - 122			
Endrin [2C]	10.4822	2.0	16.6667	ND	62.9	33 - 122			
Endrin aldehyde	5.51567	2.0	16.6667	ND	33.1	0 - 137			
Endrin aldehyde [2C]	5.88233	2.0	16.6667	ND	35.3	0 - 137			
Endrin ketone	7.05583	2.0	16.6667	ND	42.3	10 - 126			
Endrin ketone [2C]	8.92133	2.0	16.6667	ND	53.5	10 - 126			
gamma-BHC	9.20700	1.0	16.6667	ND	55.2	30 - 111			
gamma-BHC [2C]	9.71700	1.0	16.6667	ND	58.3	30 - 111			
gamma-Chlordane	9.84617	1.0	16.6667	1.06450	52.7	16 - 130			
gamma-Chlordane [2C]	11.0560	1.0	16.6667	1.08867	59.8	16 - 130			
Heptachlor	9.79400	1.0	16.6667	ND	58.8	34 - 127			
Heptachlor [2C]	10.0983	1.0	16.6667	ND	60.6	34 - 127			
Heptachlor epoxide	9.42150	1.0	16.6667	ND	56.5	19 - 130			
Heptachlor epoxide [2C]	10.1937	1.0	16.6667	ND	61.2	19 - 130			
Methoxychlor	12.1683	5.0	16.6667	ND	73.0	16 - 153			
Methoxychlor [2C]	9.24600	5.0	16.6667	ND	55.5	16 - 153			
Surrogate: Decachlorobiphenyl	*10.05*		*16.6667*		*60.3*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.24*		*16.6667*		*67.4*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*9.020*		*16.6667*		*54.1*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*9.806*		*16.6667*		*58.8*	*16 - 105*			
Matrix Spike Dup (B5E0120-MSD1)		**Source: 1501532-43**		Prepared: 5/5/2015 Analyzed: 5/6/2015					
4,4´-DDD	12.3163	2.0	16.6667	ND	73.9	27 - 123	4.93	20	
4,4´-DDD [2C]	13.8180	2.0	16.6667	ND	82.9	27 - 123	5.89	20	
4,4´-DDE	16.6765	2.0	16.6667	3.77767	77.4	28 - 126	2.99	20	
4,4´-DDE [2C]	18.9600	2.0	16.6667	3.97267	89.9	28 - 126	4.69	20	
4,4´-DDT	15.0177	2.0	16.6667	2.56483	74.7	12 - 149	4.87	20	
4,4´-DDT [2C]	16.3555	2.0	16.6667	2.29633	84.4	12 - 149	6.06	20	
Aldrin	13.3093	1.0	16.6667	ND	79.9	29 - 116	3.02	20	
Aldrin [2C]	14.2977	1.0	16.6667	ND	85.8	29 - 116	3.83	20	
alpha-BHC	12.6688	1.0	16.6667	ND	76.0	27 - 104	3.82	20	
alpha-BHC [2C]	13.1007	1.0	16.6667	ND	78.6	27 - 104	4.58	20	
alpha-Chlordane	13.3080	1.0	16.6667	0.209500	78.6	14 - 130	3.61	20	
alpha-Chlordane [2C]	15.3808	1.0	16.6667	0.252667	90.8	14 - 130	4.77	20	
beta-BHC	12.3777	1.0	16.6667	ND	74.3	20 - 115	5.71	20	
beta-BHC [2C]	12.8762	1.0	16.6667	ND	77.3	20 - 115	6.37	20	
delta-BHC	10.5308	1.0	16.6667	ND	63.2	8 - 78	8.29	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0120 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5E0120-MSD1) - Continued		**Source: 1501532-43**		Prepared: 5/5/2015 Analyzed: 5/6/2015					
delta-BHC [2C]	11.1467	1.0	16.6667	ND	66.9	8 - 78	9.71	20	
Dieldrin	12.8160	2.0	16.6667	ND	76.9	20 - 134	3.42	20	
Dieldrin [2C]	13.6965	2.0	16.6667	ND	82.2	20 - 134	4.52	20	
Endosulfan I	12.0423	1.0	16.6667	ND	72.3	27 - 114	3.23	20	
Endosulfan I [2C]	13.1535	1.0	16.6667	ND	78.9	27 - 114	3.98	20	
Endosulfan II	12.0353	2.0	16.6667	ND	72.2	16 - 125	8.50	20	
Endosulfan II [2C]	13.0088	2.0	16.6667	ND	78.1	16 - 125	9.12	20	
Endosulfan sulfate	13.0650	2.0	16.6667	ND	78.4	1 - 126	15.4	20	
Endosulfan Sulfate [2C]	13.3988	2.0	16.6667	ND	80.4	1 - 126	15.0	20	
Endrin	13.2190	2.0	16.6667	ND	79.3	33 - 122	4.25	20	
Endrin [2C]	14.1272	2.0	16.6667	ND	84.8	33 - 122	4.79	20	
Endrin aldehyde	10.3150	2.0	16.6667	ND	61.9	0 - 137	13.4	20	
Endrin aldehyde [2C]	10.5365	2.0	16.6667	ND	63.2	0 - 137	15.1	20	
Endrin ketone	12.3315	2.0	16.6667	ND	74.0	10 - 126	12.6	20	
Endrin ketone [2C]	13.2872	2.0	16.6667	ND	79.7	10 - 126	13.6	20	
gamma-BHC	12.7908	1.0	16.6667	ND	76.7	30 - 111	4.53	20	
gamma-BHC [2C]	13.5685	1.0	16.6667	ND	81.4	30 - 111	5.16	20	
gamma-Chlordane	13.5670	1.0	16.6667	0.339500	79.4	16 - 130	3.56	20	
gamma-Chlordane [2C]	15.0260	1.0	16.6667	0.380167	87.9	16 - 130	5.34	20	
Heptachlor	13.4530	1.0	16.6667	ND	80.7	34 - 127	3.43	20	
Heptachlor [2C]	13.4598	1.0	16.6667	ND	80.8	34 - 127	5.61	20	
Heptachlor epoxide	13.1695	1.0	16.6667	ND	79.0	19 - 130	4.19	20	
Heptachlor epoxide [2C]	14.2525	1.0	16.6667	ND	85.5	19 - 130	4.87	20	
Methoxychlor	13.3610	5.0	16.6667	ND	80.2	16 - 153	7.71	20	
Methoxychlor [2C]	13.0640	5.0	16.6667	ND	78.4	16 - 153	12.4	20	
Surrogate: Decachlorobiphenyl	*13.50*		*16.6667*		*81.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.17*		*16.6667*		*73.0*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*11.60*		*16.6667*		*69.6*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.51*		*16.6667*		*75.0*	*16 - 105*			
Matrix Spike Dup (B5E0120-MSD3)		**Source: 1501144-63**		Prepared: 5/5/2015 Analyzed: 5/6/2015					
4,4´-DDD	8.39850	2.0	16.6667	ND	50.4	27 - 123	4.13	20	
4,4´-DDD [2C]	10.1060	2.0	16.6667	ND	60.6	27 - 123	4.92	20	
4,4´-DDE	11.4268	2.0	16.6667	1.96867	56.7	28 - 126	0.512	20	
4,4´-DDE [2C]	13.5490	2.0	16.6667	2.33267	67.3	28 - 126	2.58	20	
4,4´-DDT	9.44033	2.0	16.6667	ND	56.6	12 - 149	0.446	20	
4,4´-DDT [2C]	10.5582	2.0	16.6667	ND	63.3	12 - 149	0.249	20	
Aldrin	9.50583	1.0	16.6667	ND	57.0	29 - 116	1.48	20	
Aldrin [2C]	10.8102	1.0	16.6667	ND	64.9	29 - 116	2.00	20	
alpha-BHC	9.20917	1.0	16.6667	ND	55.3	27 - 104	1.88	20	
alpha-BHC [2C]	10.8545	1.0	16.6667	ND	65.1	27 - 104	3.74	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0120 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5E0120-MSD3) - Continued		**Source: 1501144-63**		Prepared: 5/5/2015 Analyzed: 5/6/2015					
alpha-Chlordane	9.49617	1.0	16.6667	0.804667	52.1	14 - 130	2.55	20	
alpha-Chlordane [2C]	11.8102	1.0	16.6667	0.916833	65.4	14 - 130	0.209	20	
beta-BHC	6.10000	1.0	16.6667	ND	36.6	20 - 115	0.859	20	
beta-BHC [2C]	6.47150	1.0	16.6667	ND	38.8	20 - 115	2.52	20	
delta-BHC	5.32633	1.0	16.6667	ND	32.0	8 - 78	1.67	20	
delta-BHC [2C]	6.14133	1.0	16.6667	ND	36.8	8 - 78	6.22	20	
Dieldrin	10.6978	2.0	16.6667	2.24350	50.7	20 - 134	1.57	20	
Dieldrin [2C]	12.2533	2.0	16.6667	2.26067	60.0	20 - 134	1.03	20	
Endosulfan I	8.40717	1.0	16.6667	ND	50.4	27 - 114	0.688	20	
Endosulfan I [2C]	9.24200	1.0	16.6667	ND	55.5	27 - 114	0.284	20	
Endosulfan II	7.89833	2.0	16.6667	ND	47.4	16 - 125	5.15	20	
Endosulfan II [2C]	8.24517	2.0	16.6667	ND	49.5	16 - 125	3.53	20	
Endosulfan sulfate	8.18417	2.0	16.6667	ND	49.1	1 - 126	19.8	20	
Endosulfan Sulfate [2C]	8.14417	2.0	16.6667	ND	48.9	1 - 126	10.6	20	
Endrin	9.25800	2.0	16.6667	ND	55.5	33 - 122	0.144	20	
Endrin [2C]	10.6795	2.0	16.6667	ND	64.1	33 - 122	1.86	20	
Endrin aldehyde	6.01983	2.0	16.6667	ND	36.1	0 - 137	8.74	20	
Endrin aldehyde [2C]	7.30883	2.0	16.6667	ND	43.9	0 - 137	21.6	20	R2
Endrin ketone	8.44433	2.0	16.6667	ND	50.7	10 - 126	17.9	20	
Endrin ketone [2C]	10.2398	2.0	16.6667	ND	61.4	10 - 126	13.8	20	
gamma-BHC	9.39767	1.0	16.6667	ND	56.4	30 - 111	2.05	20	
gamma-BHC [2C]	10.1085	1.0	16.6667	ND	60.7	30 - 111	3.95	20	
gamma-Chlordane	9.86717	1.0	16.6667	1.06450	52.8	16 - 130	0.213	20	
gamma-Chlordane [2C]	11.2828	1.0	16.6667	1.08867	61.2	16 - 130	2.03	20	
Heptachlor	9.76617	1.0	16.6667	ND	58.6	34 - 127	0.285	20	
Heptachlor [2C]	10.7327	1.0	16.6667	ND	64.4	34 - 127	6.09	20	
Heptachlor epoxide	9.38783	1.0	16.6667	ND	56.3	19 - 130	0.358	20	
Heptachlor epoxide [2C]	10.3773	1.0	16.6667	ND	62.3	19 - 130	1.79	20	
Methoxychlor	13.7698	5.0	16.6667	ND	82.6	16 - 153	12.3	20	
Methoxychlor [2C]	8.83250	5.0	16.6667	ND	53.0	16 - 153	4.57	20	
Surrogate: Decachlorobiphenyl	*12.25*		*16.6667*		*73.5*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*15.00*		*16.6667*		*90.0*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*8.892*		*16.6667*		*53.3*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*9.919*		*16.6667*		*59.5*	*16 - 105*			

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/07/2015

Notes and Definitions

R2	RPD value outside acceptance criteria due to possible matrix interference.
L3	Laboratory control sample outside in-house established limits but within method criteria.
H4	Change order analysis requested past the sample holding time.
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)
TX1	TX-NELAP (TCEQ)

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.

April 07, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501145

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on March 31, 2015 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,

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

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G6-0.5	1501145-01	Soil	3/30/15 9:15	3/31/15 12:30
G7-0.5	1501145-07	Soil	3/30/15 9:30	3/31/15 12:30
G8-0.5	1501145-13	Soil	3/30/15 11:45	3/31/15 12:30
G9-0.5	1501145-19	Soil	3/30/15 11:20	3/31/15 12:30
H8-0.5	1501145-25	Soil	3/30/15 11:00	3/31/15 12:30
H9-0.5	1501145-31	Soil	3/30/15 11:10	3/31/15 12:30
I7-0.5	1501145-32	Soil	3/30/15 9:50	3/31/15 12:30
I8-0.5	1501145-38	Soil	3/30/15 10:10	3/31/15 12:30
BD6-N0.5	1501145-44	Soil	3/30/15 14:36	3/31/15 12:30
BD6-S0.5	1501145-50	Soil	3/30/15 11:55	3/31/15 12:30
BD6-E0.5	1501145-56	Soil	3/30/15 12:38	3/31/15 12:30
BD6-E1	1501145-57	Soil	3/30/15 12:38	3/31/15 12:30
BD6-(N,E,S)-0.5	1501145-62	Soil	3/30/15 0:00	3/31/15 12:30
BD7-N0.5	1501145-63	Soil	3/30/15 13:55	3/31/15 12:30
BD7-E0.5	1501145-69	Soil	3/30/15 12:23	3/31/15 12:30
BD7-S0.5	1501145-75	Soil	3/30/15 12:06	3/31/15 12:30
BD7-W0.5	1501145-81	Soil	3/30/15 10:19	3/31/15 12:30
BD7-(N,E,S,W)-0.5	1501145-87	Soil	3/30/15 0:00	3/31/15 12:30
EQ Blank	1501145-88	Water	3/30/15 15:23	3/31/15 12:30

CASE NARRATIVE

The samples for EPA 6020 analysis were subcontracted to AETL with DOHS Cert.#1541.

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD6-N0.5

Lab ID: 1501145-44

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**35**	1.0	1	B5D0012	04/01/2015	04/02/15 11:11	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD6-S0.5

Lab ID: 1501145-50

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**6.7**	1.0	1	B5D0012	04/01/2015	04/02/15 11:13	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD6-E0.5

Lab ID: 1501145-56

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**51**	1.0	1	B5D0012	04/01/2015	04/02/15 11:14	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID BD6-(N,E,S)-0.5

Lab ID: 1501145-62

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
4,4´-DDE [2C]	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
4,4´-DDT	**2.4**	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Aldrin	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
alpha-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
alpha-Chlordane [2C]	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
beta-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Chlordane	ND	8.5	1	B5D0021	04/01/2015	04/01/15 18:48	
delta-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Dieldrin	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Endosulfan I	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Endosulfan II	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Endosulfan sulfate	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Endrin	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Endrin aldehyde	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Endrin ketone	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:48	
gamma-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
gamma-Chlordane [2C]	**1.0**	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Heptachlor	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Heptachlor epoxide	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Methoxychlor	ND	5.0	1	B5D0021	04/01/2015	04/01/15 18:48	
Toxaphene	ND	50	1	B5D0021	04/01/2015	04/01/15 18:48	
Surrogate: Decachlorobiphenyl	*66.8 %*	*16 - 137*		B5D0021	04/01/2015	*04/01/15 18:48*	
Surrogate: Tetrachloro-m-xylene	*63.5 %*	*16 - 105*		B5D0021	04/01/2015	*04/01/15 18:48*	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD7-N0.5

Lab ID: 1501145-63

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.7**	1.0	1	B5D0012	04/01/2015	04/02/15 11:16	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD7-E0.5

Lab ID: 1501145-69

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.5**	1.0	1	B5D0012	04/01/2015	04/02/15 11:30	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD7-S0.5

Lab ID: 1501145-75

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.4**	1.0	1	B5D0012	04/01/2015	04/02/15 11:20	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/07/2015

Client Sample ID BD7-W0.5

Lab ID: 1501145-81

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.5**	1.0	1	B5D0012	04/01/2015	04/02/15 11:22	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID BD7-(N,E,S,W)-0.5

Lab ID: 1501145-87

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
4,4´-DDE	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
4,4´-DDT	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Aldrin	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
alpha-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
alpha-Chlordane	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
beta-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Chlordane	ND	8.5	1	B5D0021	04/01/2015	04/01/15 18:59	
delta-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Dieldrin	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Endosulfan I	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Endosulfan II	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Endosulfan sulfate	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Endrin	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Endrin aldehyde	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Endrin ketone	ND	2.0	1	B5D0021	04/01/2015	04/01/15 18:59	
gamma-BHC	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
gamma-Chlordane	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Heptachlor	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Heptachlor epoxide	ND	1.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Methoxychlor	ND	5.0	1	B5D0021	04/01/2015	04/01/15 18:59	
Toxaphene	ND	50	1	B5D0021	04/01/2015	04/01/15 18:59	
Surrogate: Decachlorobiphenyl	*63.5 %*	*16 - 137*		B5D0021	04/01/2015	*04/01/15 18:59*	
Surrogate: Tetrachloro-m-xylene	*62.7 %*	*16 - 105*		B5D0021	04/01/2015	*04/01/15 18:59*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Client Sample ID EQ Blank

Lab ID: 1501145-88

Total Metals by ICP-AES EPA 6010B — **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.0050	1	B5D0105	04/03/2015	04/06/15 17:54	

Organochlorine Pesticides by EPA 8081 — **Analyst: CL**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
4,4´-DDE	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
4,4´-DDT	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
Aldrin	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
alpha-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
alpha-Chlordane	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
beta-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
Chlordane	ND	0.25	1	B5C0790	03/31/2015	04/01/15 18:27	
delta-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
Dieldrin	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
Endosulfan I	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
Endosulfan II	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
Endosulfan sulfate	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
Endrin	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
Endrin aldehyde	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
Endrin ketone	ND	0.05	1	B5C0790	03/31/2015	04/01/15 18:27	
gamma-BHC	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
gamma-Chlordane	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
Heptachlor	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
Heptachlor epoxide	ND	0.02	1	B5C0790	03/31/2015	04/01/15 18:27	
Methoxychlor	ND	0.25	1	B5C0790	03/31/2015	04/01/15 18:27	
Toxaphene	ND	2.5	1	B5C0790	03/31/2015	04/01/15 18:27	
Surrogate: Decachlorobiphenyl	*78.9 %*	*20 - 138*		B5C0790	03/31/2015	*04/01/15 18:27*	
Surrogate: Tetrachloro-m-xylene	*78.9 %*	*11 - 133*		B5C0790	03/31/2015	*04/01/15 18:27*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0012 - EPA 3050B_S									
Blank (B5D0012-BLK1)				Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	ND	1.0			NR				
LCS (B5D0012-BS1)				Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	47.8328	1.0	50.0000		95.7	80 - 120			
Duplicate (B5D0012-DUP1)		**Source: 1501144-25**		Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	8.96409	1.0		11.9818	NR		28.8	20	R
Matrix Spike (B5D0012-MS1)		**Source: 1501144-25**		Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	105.328	1.0	125.000	11.9818	74.7	35 - 129			
Matrix Spike Dup (B5D0012-MSD1)		**Source: 1501144-25**		Prepared: 4/1/2015 Analyzed: 4/2/2015					
Lead	103.826	1.0	125.000	11.9818	73.5	35 - 129	1.44	20	
Batch B5D0105 - EPA 3010A_W									
Blank (B5D0105-BLK1)				Prepared: 4/3/2015 Analyzed: 4/6/2015					
Lead	ND	0.0050			NR				
LCS (B5D0105-BS1)				Prepared: 4/3/2015 Analyzed: 4/6/2015					
Lead	0.978404	0.0050	1.00000		97.8	80 - 120			
Duplicate (B5D0105-DUP1)		**Source: 1501140-42**		Prepared: 4/3/2015 Analyzed: 4/6/2015					
Lead	ND	0.0050		ND	NR			20	
Matrix Spike (B5D0105-MS1)		**Source: 1501140-42**		Prepared: 4/3/2015 Analyzed: 4/6/2015					
Lead	2.41338	0.0050	2.50000	ND	96.5	85 - 114			
Matrix Spike Dup (B5D0105-MSD1)		**Source: 1501140-42**		Prepared: 4/3/2015 Analyzed: 4/6/2015					
Lead	2.45741	0.0050	2.50000	ND	98.3	85 - 114	1.81	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W									
Blank (B5C0790-BLK1)				Prepared: 3/31/2015 Analyzed: 3/31/2015					
4,4´-DDD	ND	0.05			NR				
4,4´-DDD [2C]	ND	0.05			NR				
4,4´-DDE	ND	0.05			NR				
4,4´-DDE [2C]	ND	0.05			NR				
4,4´-DDT	ND	0.05			NR				
4,4´-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				

TRC
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Project Number : LAUSD Foshay, 231058.0000.0004
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Reported : 04/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
Blank (B5C0790-BLK1) - Continued				Prepared: 3/31/2015 Analyzed: 3/31/2015					
Methoxychlor [2C]	ND	0.25			NR				
Toxaphene	ND	2.5			NR				
Toxaphene [2C]	ND	2.5			NR				
Surrogate: Decachlorobiphenyl	*0.3596*		*0.500000*		*71.9*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3513*		*0.500000*		*70.3*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3458*		*0.500000*		*69.2*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3579*		*0.500000*		*71.6*	*11 - 133*			
LCS (B5C0790-BS1)				Prepared: 3/31/2015 Analyzed: 3/31/2015					
4,4´-DDD	0.410085	0.05	0.500000		82.0	56 - 107			
4,4´-DDD [2C]	0.439180	0.05	0.500000		87.8	56 - 107			
4,4´-DDE	0.447170	0.05	0.500000		89.4	62 - 107			
4,4´-DDE [2C]	0.473840	0.05	0.500000		94.8	62 - 107			
4,4´-DDT	0.408690	0.05	0.500000		81.7	41 - 110			
4,4´-DDT [2C]	0.410125	0.05	0.500000		82.0	41 - 110			
Aldrin	0.432705	0.02	0.500000		86.5	56 - 101			
Aldrin [2C]	0.456380	0.02	0.500000		91.3	56 - 101			
alpha-BHC	0.397830	0.02	0.500000		79.6	55 - 89			
alpha-BHC [2C]	0.421700	0.02	0.500000		84.3	55 - 89			
alpha-Chlordane	0.433750	0.02	0.500000		86.8	57 - 103			
alpha-Chlordane [2C]	0.457220	0.02	0.500000		91.4	57 - 103			
beta-BHC	0.388215	0.02	0.500000		77.6	58 - 95			
beta-BHC [2C]	0.402050	0.02	0.500000		80.4	58 - 95			
delta-BHC	0.418805	0.02	0.500000		83.8	12 - 80			L3
delta-BHC [2C]	0.447560	0.02	0.500000		89.5	12 - 80			L3
Dieldrin	0.425315	0.05	0.500000		85.1	60 - 102			
Dieldrin [2C]	0.433270	0.05	0.500000		86.7	60 - 102			
Endosulfan I	0.402360	0.02	0.500000		80.5	55 - 98			
Endosulfan I [2C]	0.417580	0.02	0.500000		83.5	55 - 98			
Endosulfan II	0.407965	0.05	0.500000		81.6	62 - 101			
Endosulfan II [2C]	0.415075	0.05	0.500000		83.0	62 - 101			
Endosulfan sulfate	0.493915	0.05	0.500000		98.8	54 - 95			L3
Endosulfan Sulfate [2C]	0.489020	0.05	0.500000		97.8	54 - 95			L3
Endrin	0.435850	0.05	0.500000		87.2	62 - 102			
Endrin [2C]	0.447950	0.05	0.500000		89.6	62 - 102			
Endrin aldehyde	0.396980	0.05	0.500000		79.4	62 - 104			
Endrin aldehyde [2C]	0.422390	0.05	0.500000		84.5	62 - 104			
Endrin ketone	0.379680	0.05	0.500000		75.9	61 - 102			
Endrin ketone [2C]	0.363610	0.05	0.500000		72.7	61 - 102			
gamma-BHC	0.412740	0.02	0.500000		82.5	60 - 94			
gamma-BHC [2C]	0.435285	0.02	0.500000		87.1	60 - 94			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
LCS (B5C0790-BS1) - Continued				Prepared: 3/31/2015 Analyzed: 3/31/2015					
gamma-Chlordane	0.435485	0.02	0.500000		87.1	58 - 103			
gamma-Chlordane [2C]	0.454140	0.02	0.500000		90.8	58 - 103			
Heptachlor	0.436920	0.02	0.500000		87.4	65 - 103			
Heptachlor [2C]	0.453825	0.02	0.500000		90.8	65 - 103			
Heptachlor epoxide	0.435855	0.02	0.500000		87.2	59 - 102			
Heptachlor epoxide [2C]	0.449335	0.02	0.500000		89.9	59 - 102			
Methoxychlor	0.422445	0.25	0.500000		84.5	40 - 105			
Methoxychlor [2C]	0.386600	0.25	0.500000		77.3	40 - 105			
Surrogate: Decachlorobiphenyl	*0.3693*		*0.500000*		*73.9*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3659*		*0.500000*		*73.2*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3615*		*0.500000*		*72.3*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3769*		*0.500000*		*75.4*	*11 - 133*			
LCS Dup (B5C0790-BSD1)				Prepared: 3/31/2015 Analyzed: 3/31/2015					
4,4´-DDD	0.413785	0.05	0.500000		82.8	56 - 107	0.898	20	
4,4´-DDD [2C]	0.439070	0.05	0.500000		87.8	56 - 107	0.0250	20	
4,4´-DDE	0.450660	0.05	0.500000		90.1	62 - 107	0.777	20	
4,4´-DDE [2C]	0.475255	0.05	0.500000		95.1	62 - 107	0.298	20	
4,4´-DDT	0.412705	0.05	0.500000		82.5	41 - 110	0.978	20	
4,4´-DDT [2C]	0.409020	0.05	0.500000		81.8	41 - 110	0.270	20	
Aldrin	0.436360	0.02	0.500000		87.3	56 - 101	0.841	20	
Aldrin [2C]	0.459620	0.02	0.500000		91.9	56 - 101	0.707	20	
alpha-BHC	0.402610	0.02	0.500000		80.5	55 - 89	1.19	20	
alpha-BHC [2C]	0.425415	0.02	0.500000		85.1	55 - 89	0.877	20	
alpha-Chlordane	0.439150	0.02	0.500000		87.8	57 - 103	1.24	20	
alpha-Chlordane [2C]	0.459165	0.02	0.500000		91.8	57 - 103	0.424	20	
beta-BHC	0.390800	0.02	0.500000		78.2	58 - 95	0.664	20	
beta-BHC [2C]	0.403965	0.02	0.500000		80.8	58 - 95	0.475	20	
delta-BHC	0.420465	0.02	0.500000		84.1	12 - 80	0.396	20	L3
delta-BHC [2C]	0.449125	0.02	0.500000		89.8	12 - 80	0.349	20	L3
Dieldrin	0.429505	0.05	0.500000		85.9	60 - 102	0.980	20	
Dieldrin [2C]	0.434310	0.05	0.500000		86.9	60 - 102	0.240	20	
Endosulfan I	0.405560	0.02	0.500000		81.1	55 - 98	0.792	20	
Endosulfan I [2C]	0.419040	0.02	0.500000		83.8	55 - 98	0.349	20	
Endosulfan II	0.411735	0.05	0.500000		82.3	62 - 101	0.920	20	
Endosulfan II [2C]	0.416160	0.05	0.500000		83.2	62 - 101	0.261	20	
Endosulfan sulfate	0.494545	0.05	0.500000		98.9	54 - 95	0.127	20	L3
Endosulfan Sulfate [2C]	0.490335	0.05	0.500000		98.1	54 - 95	0.269	20	L3
Endrin	0.439830	0.05	0.500000		88.0	62 - 102	0.909	20	
Endrin [2C]	0.448730	0.05	0.500000		89.7	62 - 102	0.174	20	
Endrin aldehyde	0.399475	0.05	0.500000		79.9	62 - 104	0.627	20	

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Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5C0790 - GCSEMI_PCB/PEST_W (continued)									
LCS Dup (B5C0790-BSD1) - Continued				Prepared: 3/31/2015 Analyzed: 3/31/2015					
Endrin aldehyde [2C]	0.423290	0.05	0.500000		84.7	62 - 104	0.213	20	
Endrin ketone	0.377535	0.05	0.500000		75.5	61 - 102	0.567	20	
Endrin ketone [2C]	0.362475	0.05	0.500000		72.5	61 - 102	0.313	20	
gamma-BHC	0.416255	0.02	0.500000		83.3	60 - 94	0.848	20	
gamma-BHC [2C]	0.438500	0.02	0.500000		87.7	60 - 94	0.736	20	
gamma-Chlordane	0.438985	0.02	0.500000		87.8	58 - 103	0.800	20	
gamma-Chlordane [2C]	0.455710	0.02	0.500000		91.1	58 - 103	0.345	20	
Heptachlor	0.440480	0.02	0.500000		88.1	65 - 103	0.811	20	
Heptachlor [2C]	0.456220	0.02	0.500000		91.2	65 - 103	0.526	20	
Heptachlor epoxide	0.438500	0.02	0.500000		87.7	59 - 102	0.605	20	
Heptachlor epoxide [2C]	0.451065	0.02	0.500000		90.2	59 - 102	0.384	20	
Methoxychlor	0.423255	0.25	0.500000		84.7	40 - 105	0.192	20	
Methoxychlor [2C]	0.397615	0.25	0.500000		79.5	40 - 105	2.81	20	
Surrogate: Decachlorobiphenyl	*0.3664*		*0.500000*		*73.3*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3631*		*0.500000*		*72.6*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3645*		*0.500000*		*72.9*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3800*		*0.500000*		*76.0*	*11 - 133*			
Batch B5D0021 - GCSEMI_PCB/PEST_S									
Blank (B5D0021-BLK1)				Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5D0021-BLK1) - Continued				Prepared: 4/1/2015 Analyzed: 4/1/2015					
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*13.11*		*16.6667*		*78.6*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*13.12*		*16.6667*		*78.7*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.12*		*16.6667*		*72.7*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.49*		*16.6667*		*74.9*	*16 - 105*			
LCS (B5D0021-BS1)				Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD	13.4340	2.0	16.6667		80.6	58 - 100			
4,4´-DDD [2C]	14.2598	2.0	16.6667		85.6	58 - 100			
4,4´-DDE	14.6042	2.0	16.6667		87.6	65 - 99			
4,4´-DDE [2C]	15.4505	2.0	16.6667		92.7	65 - 99			
4,4´-DDT	13.1305	2.0	16.6667		78.8	39 - 116			
4,4´-DDT [2C]	13.1948	2.0	16.6667		79.2	39 - 116			
Aldrin	14.0187	1.0	16.6667		84.1	57 - 94			
Aldrin [2C]	14.7417	1.0	16.6667		88.4	57 - 94			
alpha-BHC	13.1247	1.0	16.6667		78.7	58 - 84			
alpha-BHC [2C]	13.7407	1.0	16.6667		82.4	58 - 84			
alpha-Chlordane	14.0807	1.0	16.6667		84.5	58 - 96			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5D0021-BS1) - Continued				Prepared: 4/1/2015 Analyzed: 4/1/2015					
alpha-Chlordane [2C]	14.8320	1.0	16.6667		89.0	58 - 96			
beta-BHC	12.8215	1.0	16.6667		76.9	58 - 87			
beta-BHC [2C]	13.2515	1.0	16.6667		79.5	58 - 87			
delta-BHC	13.5202	1.0	16.6667		81.1	18 - 75			L3
delta-BHC [2C]	14.3930	1.0	16.6667		86.4	18 - 75			L3
Dieldrin	13.8830	2.0	16.6667		83.3	62 - 94			
Dieldrin [2C]	14.1205	2.0	16.6667		84.7	62 - 94			
Endosulfan I	13.1253	1.0	16.6667		78.8	58 - 90			
Endosulfan I [2C]	13.6088	1.0	16.6667		81.7	58 - 90			
Endosulfan II	13.5000	2.0	16.6667		81.0	63 - 95			
Endosulfan II [2C]	13.6910	2.0	16.6667		82.1	63 - 95			
Endosulfan sulfate	15.6297	2.0	16.6667		93.8	59 - 89			L3
Endosulfan Sulfate [2C]	15.7015	2.0	16.6667		94.2	59 - 89			L3
Endrin	14.2875	2.0	16.6667		85.7	64 - 96			
Endrin [2C]	14.6507	2.0	16.6667		87.9	64 - 96			
Endrin aldehyde	13.0435	2.0	16.6667		78.3	65 - 95			
Endrin aldehyde [2C]	14.0040	2.0	16.6667		84.0	65 - 95			
Endrin ketone	11.6662	2.0	16.6667		70.0	59 - 101			
Endrin ketone [2C]	11.5212	2.0	16.6667		69.1	59 - 101			
gamma-BHC	13.4788	1.0	16.6667		80.9	63 - 89			
gamma-BHC [2C]	14.1900	1.0	16.6667		85.1	63 - 89			
gamma-Chlordane	14.1435	1.0	16.6667		84.9	61 - 95			
gamma-Chlordane [2C]	14.6807	1.0	16.6667		88.1	61 - 95			
Heptachlor	14.1907	1.0	16.6667		85.1	65 - 102			
Heptachlor [2C]	14.8013	1.0	16.6667		88.8	65 - 102			
Heptachlor epoxide	14.2053	1.0	16.6667		85.2	61 - 95			
Heptachlor epoxide [2C]	14.6277	1.0	16.6667		87.8	61 - 95			
Methoxychlor	13.5673	5.0	16.6667		81.4	29 - 128			
Methoxychlor [2C]	12.6752	5.0	16.6667		76.1	29 - 128			
Surrogate: Decachlorobiphenyl	*12.50*		*16.6667*		*75.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.37*		*16.6667*		*74.2*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.01*		*16.6667*		*72.1*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.52*		*16.6667*		*75.1*	*16 - 105*			
Matrix Spike (B5D0021-MS1)		**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD	10.6377	2.0	16.6667	ND	63.8	27 - 123			
4,4´-DDD [2C]	12.3688	2.0	16.6667	ND	74.2	27 - 123			
4,4´-DDE	12.3173	2.0	16.6667	ND	73.9	28 - 126			
4,4´-DDE [2C]	14.0682	2.0	16.6667	ND	84.4	28 - 126			
4,4´-DDT	11.6038	2.0	16.6667	ND	69.6	12 - 149			
4,4´-DDT [2C]	12.4247	2.0	16.6667	ND	74.5	12 - 149			

Certificate of Analysis

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0021-MS1) - Continued		**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
Aldrin	12.2818	1.0	16.6667	ND	73.7	29 - 116			
Aldrin [2C]	13.3707	1.0	16.6667	ND	80.2	29 - 116			
alpha-BHC	11.0108	1.0	16.6667	ND	66.1	27 - 104			
alpha-BHC [2C]	12.5315	1.0	16.6667	ND	75.2	27 - 104			
alpha-Chlordane	11.8057	1.0	16.6667	ND	70.8	14 - 130			
alpha-Chlordane [2C]	13.1538	1.0	16.6667	ND	78.9	14 - 130			
beta-BHC	7.86167	1.0	16.6667	ND	47.2	20 - 115			
beta-BHC [2C]	8.14917	1.0	16.6667	ND	48.9	20 - 115			
delta-BHC	8.40017	1.0	16.6667	ND	50.4	8 - 78			
delta-BHC [2C]	9.21550	1.0	16.6667	ND	55.3	8 - 78			
Dieldrin	11.3907	2.0	16.6667	ND	68.3	20 - 134			
Dieldrin [2C]	12.3295	2.0	16.6667	ND	74.0	20 - 134			
Endosulfan I	11.0087	1.0	16.6667	ND	66.1	27 - 114			
Endosulfan I [2C]	12.0818	1.0	16.6667	ND	72.5	27 - 114			
Endosulfan II	9.37500	2.0	16.6667	ND	56.2	16 - 125			
Endosulfan II [2C]	9.81267	2.0	16.6667	ND	58.9	16 - 125			
Endosulfan sulfate	6.89917	2.0	16.6667	ND	41.4	1 - 126			
Endosulfan Sulfate [2C]	7.38917	2.0	16.6667	ND	44.3	1 - 126			
Endrin	11.8712	2.0	16.6667	ND	71.2	33 - 122			
Endrin [2C]	13.1093	2.0	16.6667	ND	78.7	33 - 122			
Endrin aldehyde	5.70500	2.0	16.6667	ND	34.2	0 - 137			
Endrin aldehyde [2C]	5.77033	2.0	16.6667	ND	34.6	0 - 137			
Endrin ketone	6.55200	2.0	16.6667	ND	39.3	10 - 126			
Endrin ketone [2C]	6.97217	2.0	16.6667	ND	41.8	10 - 126			
gamma-BHC	11.6248	1.0	16.6667	ND	69.7	30 - 111			
gamma-BHC [2C]	12.4682	1.0	16.6667	ND	74.8	30 - 111			
gamma-Chlordane	11.6428	1.0	16.6667	ND	69.9	16 - 130			
gamma-Chlordane [2C]	12.7752	1.0	16.6667	ND	76.7	16 - 130			
Heptachlor	12.6025	1.0	16.6667	ND	75.6	34 - 127			
Heptachlor [2C]	13.6023	1.0	16.6667	ND	81.6	34 - 127			
Heptachlor epoxide	11.9348	1.0	16.6667	ND	71.6	19 - 130			
Heptachlor epoxide [2C]	12.8912	1.0	16.6667	ND	77.3	19 - 130			
Methoxychlor	12.1957	5.0	16.6667	ND	73.2	16 - 153			
Methoxychlor [2C]	10.5525	5.0	16.6667	ND	63.3	16 - 153			
Surrogate: Decachlorobiphenyl	*11.00*		*16.6667*		*66.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.47*		*16.6667*		*68.8*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.55*		*16.6667*		*63.3*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.62*		*16.6667*		*69.7*	*16 - 105*			
Matrix Spike Dup (B5D0021-MSD1)		**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD	10.4422	2.0	16.6667	ND	62.7	27 - 123	1.85	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0021-MSD1) - Continued		**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015					
4,4´-DDD [2C]	12.0185	2.0	16.6667	ND	72.1	27 - 123	2.87	20	
4,4´-DDE	11.7158	2.0	16.6667	ND	70.3	28 - 126	5.01	20	
4,4´-DDE [2C]	13.7912	2.0	16.6667	ND	82.7	28 - 126	1.99	20	
4,4´-DDT	11.2185	2.0	16.6667	ND	67.3	12 - 149	3.38	20	
4,4´-DDT [2C]	12.0967	2.0	16.6667	ND	72.6	12 - 149	2.68	20	
Aldrin	12.1880	1.0	16.6667	ND	73.1	29 - 116	0.767	20	
Aldrin [2C]	13.2980	1.0	16.6667	ND	79.8	29 - 116	0.545	20	
alpha-BHC	11.9008	1.0	16.6667	ND	71.4	27 - 104	7.77	20	
alpha-BHC [2C]	12.7507	1.0	16.6667	ND	76.5	27 - 104	1.73	20	
alpha-Chlordane	11.3267	1.0	16.6667	ND	68.0	14 - 130	4.14	20	
alpha-Chlordane [2C]	12.9250	1.0	16.6667	ND	77.5	14 - 130	1.75	20	
beta-BHC	7.92483	1.0	16.6667	ND	47.5	20 - 115	0.800	20	
beta-BHC [2C]	8.22183	1.0	16.6667	ND	49.3	20 - 115	0.888	20	
delta-BHC	8.61750	1.0	16.6667	ND	51.7	8 - 78	2.55	20	
delta-BHC [2C]	9.57150	1.0	16.6667	ND	57.4	8 - 78	3.79	20	
Dieldrin	10.8935	2.0	16.6667	ND	65.4	20 - 134	4.46	20	
Dieldrin [2C]	12.0262	2.0	16.6667	ND	72.2	20 - 134	2.49	20	
Endosulfan I	10.5790	1.0	16.6667	ND	63.5	27 - 114	3.98	20	
Endosulfan I [2C]	11.7993	1.0	16.6667	ND	70.8	27 - 114	2.37	20	
Endosulfan II	9.50533	2.0	16.6667	ND	57.0	16 - 125	1.38	20	
Endosulfan II [2C]	9.86750	2.0	16.6667	ND	59.2	16 - 125	0.557	20	
Endosulfan sulfate	7.12067	2.0	16.6667	ND	42.7	1 - 126	3.16	20	
Endosulfan Sulfate [2C]	7.73117	2.0	16.6667	ND	46.4	1 - 126	4.52	20	
Endrin	11.4828	2.0	16.6667	ND	68.9	33 - 122	3.33	20	
Endrin [2C]	12.7010	2.0	16.6667	ND	76.2	33 - 122	3.16	20	
Endrin aldehyde	5.85283	2.0	16.6667	ND	35.1	0 - 137	2.56	20	
Endrin aldehyde [2C]	5.91600	2.0	16.6667	ND	35.5	0 - 137	2.49	20	
Endrin ketone	7.07133	2.0	16.6667	ND	42.4	10 - 126	7.62	20	
Endrin ketone [2C]	7.61917	2.0	16.6667	ND	45.7	10 - 126	8.87	20	
gamma-BHC	11.8465	1.0	16.6667	ND	71.1	30 - 111	1.89	20	
gamma-BHC [2C]	12.7080	1.0	16.6667	ND	76.2	30 - 111	1.91	20	
gamma-Chlordane	11.2222	1.0	16.6667	ND	67.3	16 - 130	3.68	20	
gamma-Chlordane [2C]	12.6027	1.0	16.6667	ND	75.6	16 - 130	1.36	20	
Heptachlor	12.6028	1.0	16.6667	ND	75.6	34 - 127	0.00262	20	
Heptachlor [2C]	13.7267	1.0	16.6667	ND	82.4	34 - 127	0.910	20	
Heptachlor epoxide	11.6615	1.0	16.6667	ND	70.0	19 - 130	2.32	20	
Heptachlor epoxide [2C]	12.7453	1.0	16.6667	ND	76.5	19 - 130	1.14	20	
Methoxychlor	14.3945	5.0	16.6667	ND	86.4	16 - 153	16.5	20	
Methoxychlor [2C]	10.5957	5.0	16.6667	ND	63.6	16 - 153	0.408	20	
Surrogate: Decachlorobiphenyl	*11.64*		*16.6667*		*69.8*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.22*		*16.6667*		*73.3*	*16 - 137*			

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0021 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0021-MSD1) - Continued			**Source: 1501145-87**		Prepared: 4/1/2015 Analyzed: 4/1/2015				
Surrogate: Tetrachloro-m-xylene	*10.81*		*16.6667*		*64.9*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.72*		*16.6667*		*70.3*	*16 - 105*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/07/2015

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
L3	Laboratory control sample outside in-house established limits but within method criteria.
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)
TX1	TX-NELAP (TCEQ)

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.

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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages	**7**
Date Received	**04/01/2015**
Date Reported	**04/02/2015**

Job Number	Order Date	Client
76465	04/01/2015	ATL

Project ID: 1501145
Project Name: PO# SC09479

Enclosed please find results of analyses of 1 water and 11 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755-5225

Project ID: 1501145 Date Received 04/01/2015 Date Reported 04/02/2015

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76465	04/01/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 12 samples with the following specification on 04/01/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76465.12	1501145-88	03/30/2015	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ AS	04/08/2015	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76465.01	1501145-01	03/30/2015	Soil	1
76465.02	1501145-07	03/30/2015	Soil	1
76465.03	1501145-13	03/30/2015	Soil	1
76465.04	1501145-19	03/30/2015	Soil	1
76465.05	1501145-25	03/30/2015	Soil	1
76465.06	1501145-31	03/30/2015	Soil	1
76465.07	1501145-32	03/30/2015	Soil	1
76465.08	1501145-38	03/30/2015	Soil	1
76465.09	1501145-50	03/30/2015	Soil	1
76465.10	1501145-56	03/30/2015	Soil	1
76465.11	1501145-69	03/30/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/02/2015	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
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Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501145
Project Name: PO# SC09479

AETL Job Number	Submitted	Client
76465	04/01/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0401151C1

Our Lab I.D.			Method Blank	76465.01	76465.02	76465.03	76465.04
Client Sample I.D.				1501145-01	1501145-07	1501145-13	1501145-19
Date Sampled				03/30/2015	03/30/2015	03/30/2015	03/30/2015
Date Prepared			04/01/2015	04/01/2015	04/01/2015	04/01/2015	04/01/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/02/2015	04/02/2015	04/02/2015	04/02/2015	04/02/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	2.32	2.00	1.65	1.47

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Page: **3**

Project ID: 1501145
Project Name: PO# SC09479

AETL Job Number	Submitted	Client
76465	04/01/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0401151C1

Our Lab I.D.			76465.05	76465.06	76465.07	76465.08	76465.09
Client Sample I.D.			1501145-25	1501145-31	1501145-32	1501145-38	1501145-50
Date Sampled			03/30/2015	03/30/2015	03/30/2015	03/30/2015	03/30/2015
Date Prepared			04/01/2015	04/01/2015	04/01/2015	04/01/2015	04/01/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/02/2015	04/02/2015	04/02/2015	04/02/2015	04/02/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	1.54	2.67	2.70	1.85	1.94

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Page: **4**

Project ID: 1501145
Project Name: PO# SC09479

AETL Job Number	Submitted	Client
76465	04/01/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0401151C1

Our Lab I.D.			76465.10	76465.11			
Client Sample I.D.			1501145-56	1501145-69			
Date Sampled			03/30/2015	03/30/2015			
Date Prepared			04/01/2015	04/01/2015			
Preparation Method			3050B	3050B			
Date Analyzed			04/02/2015	04/02/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	18.4	1.38			

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ANALYTICAL RESULTS

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Page: **5**

Project ID: 1501145
Project Name: PO# SC09479

AETL Job Number	Submitted	Client
76465	04/01/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0402151C1

Our Lab I.D.			Method Blank	**76465.12**			
Client Sample I.D.				1501145-88			
Date Sampled				03/30/2015			
Date Prepared			04/02/2015	04/02/2015			
Preparation Method			3005A	3005A			
Date Analyzed			04/02/2015	04/02/2015			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.0025	0.0250	ND	ND			

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QUALITY CONTROL RESULTS

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Attn: Rachelle Arada
Page: 6

Project ID: 1501145
Project Name: PO# SC09479

AETL Job Number	Submitted	Client
76465	04/01/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0402151C1; Dup or Spiked Sample: 76465.12; LCS: Clean Water; QC Prepared: 04/02/2015; QC Analyzed: 04/02/2015; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	0.00	0.0100	0.0100	90.5	0.0100	0.0100	90.8	<1	75-125	<15

QC Batch No: 0402151C1; Dup or Spiked Sample: 76465.12; LCS: Clean Water; QC Prepared: 04/02/2015; QC Analyzed: 04/02/2015; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	0.0100	0.0100	97.2	0.0100	0.0100	102	4.82	75-125	<15	

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QUALITY CONTROL RESULTS

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Page: **7**

Project ID: 1501145
Project Name: PO# SC09479

AETL Job Number	Submitted	Client
76465	04/01/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0401151C1; Dup or Spiked Sample: 76465.01; LCS: Clean Sand; QC Prepared: 04/01/2015; QC Analyzed: 04/02/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.32	1.00	4.57 M	225	1.00	4.14 M	182	21.1	80-120	<15

QC Batch No: 0401151C1; Dup or Spiked Sample: 76465.01; LCS: Clean Sand; QC Prepared: 04/01/2015; QC Analyzed: 04/02/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	1.08	108	1.00	1.08	108	<1	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76465

SUBCONTRACT ORDER

Work Order: 1501145

SENDING LABORATORY:	RECEIVING LABORATORY:
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09479 - RUSH TAT RA

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501145-01 / G6-0.5 76465-01		**Soil**	**03/30/15 09:15**	**Report Arsenic only**
6020_SUB	**04/02/15 15:00**	09/26/15 09:15		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-07 / G7-0.5 76465-02		**Soil**	**03/30/15 09:30**	
6020_SUB	**04/02/15 15:00**	09/26/15 09:30		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-13 / G8-0.5 76465.03		**Soil**	**03/30/15 11:45**	
6020_SUB	**04/02/15 15:00**	09/26/15 11:45		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-19 / G9-0.5 76465.04		**Soil**	**03/30/15 11:20**	
6020_SUB	**04/02/15 15:00**	09/26/15 11:20		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-25 / H8-0.5 76465-05		**Soil**	**03/30/15 11:00**	
6020_SUB	**04/02/15 15:00**	09/26/15 11:00		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				

Released By	Date	Received By	Date
	4/1/15 1132	Sargis P	4/1/15 1132
Sargis P	4/1/15 1810	Antin	04/01/15 1310

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

76465

Work Order: 1501145

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501145-31 / H9-0.5 76465.06		**Soil**	**03/30/15 11:10**	
6020_SUB	**04/02/15 15:00**	09/26/15 11:10		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-32 / I7-0.5 76465.07		**Soil**	**03/30/15 09:50**	
6020_SUB	**04/02/15 15:00**	09/26/15 09:50		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-38 / I8-0.5 76465.08		**Soil**	**03/30/15 10:10**	
6020_SUB	**04/02/15 15:00**	09/26/15 10:10		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-50 / BD6-S0.5 76465.09		**Soil**	**03/30/15 ~~14:36~~ 11:55**	
6020_SUB	**04/02/15 15:00**	09/26/15 14:36		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-56 / BD6-E0.5 76465.10		**Soil**	**03/30/15 12:38**	
6020_SUB	**04/02/15 15:00**	09/26/15 12:38		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-69 / BD7-E0.5 76465.11		**Soil**	**03/30/15 12:23**	
6020_SUB	**04/02/15 15:00**	09/26/15 12:23		
[Individual Metals by ICPMS]				
Glass Jar - 2 oz				
ATL Lab#: 1501145-88 / EQ Blank 76465.12		**Water**	**03/30/15 ~~00:00~~ 13:25**	**EQ BLANK -STANDARD TAT**
6020_SUB	**04/06/15 15:00**	09/26/15 00:00		
[Individual Metals by ICPMS]				
Poly HNO3 - 500mL				

Released By	Date	Received By	Date
	4/1/15 1132	Sangita P	4/1/15 1132
Sangita P	4/1/15 1310	Antia	04/01/15 1310

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Attention: Rachelle Arada

Number of Pages	**3**
Date Received	**04/03/2015**
Date Reported	**04/06/2015**

Job Number	Order Date	Client
76512	04/03/2015	ATL

Project ID: 1501145
Project Name: PO# SC09479

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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

Ordered By

Advanced Technology Laboratories **3275 Walnut Avenue** **Signal Hill, CA 90755-5225**

Project ID: 1501145 **Date Received 04/03/2015** **Date Reported 04/06/2015**

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76512	04/03/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 04/03/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76512.01	1501145-57	03/30/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	04/06/2015	2	Rush	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501145
Project Name: PO# SC09479

AETL Job Number	Submitted	Client
76512	04/03/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0406151C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			04/06/2015				
Preparation Method			3050B				
Date Analyzed			04/06/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

QUALITY CONTROL REPORT

QC Batch No: 0406151C2; Dup or Spiked Sample: 76512.01; LCS: Clean Sand; QC Prepared: 04/06/2015; QC Analyzed: 04/06/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.91	5.00	6.67	95.2	5.00	6.77	97.2	2.08	80-120	<15

QC Batch No: 0406151C2; Dup or Spiked Sample: 76512.01; LCS: Clean Sand; QC Prepared: 04/06/2015; QC Analyzed: 04/06/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.880	87.5	1.00	0.870	86.5	1.15	80-120	<15	

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ANALYTICAL RESULTS

Ordered By

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Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 3

Project ID: 1501145
Project Name: PO# SC09479

AETL Job Number	Submitted	Client
76512	04/03/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0406151C2

Our Lab I.D.			76512.01				
Client Sample I.D.			1501145-57				
Date Sampled			03/30/2015				
Date Prepared			04/06/2015				
Preparation Method			3050B				
Date Analyzed			04/06/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.25	0.50	1.91				

QUALITY CONTROL REPORT

QC Batch No: 0406151C2; Dup or Spiked Sample: 76512.01; LCS: Clean Sand; QC Prepared: 04/06/2015; QC Analyzed: 04/06/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.91	5.00	6.67	95.2	5.00	6.77	97.2	2.08	80-120	<15

QC Batch No: 0406151C2; Dup or Spiked Sample: 76512.01; LCS: Clean Sand; QC Prepared: 04/06/2015; QC Analyzed: 04/06/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.880	87.5	1.00	0.870	86.5	1.15	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76512

SUBCONTRACT ORDER

Work Order: 1501145

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09479 - RUSH TAT

IMPORTANT : Please include Work **Order # and PO # in your invoice.**

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501145-57 / BD6-E1	76512.01	Soil	03/30/15 12:38	REPORT ARSENIC ONLY
6020_SUB	**04/06/15 08:00**	09/26/15 12:38		
[Individual Metals by ICPMS]				

Released By	Date	Received By	Date
	4/3/15 1200		4/3/15 1200
Released By	Date	Received By	Date
	4/3/15 1335		04/03/15 1335

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 2

Instruction: Complete all shaded areas.

For Laboratory Use Only			ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt	
		Condition Y N	Condition Y N
Client ATL		1. CHILLED	5. # OF SAMPLES MATCH COC
FedEx OnTrac		2. HEADSPACE (VOA)	6. PRESERVED
GSO		3. CONTAINER INTACT	7. COOLER TEMP, deg C:
Other:		4. SEALED	

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L Wicks
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1		G6-0.5	3/30/15	9:15
2		G6-1		
3		G6-1.5		
4		G6-2		
5		G6-2.5		
6		G6-3		
7		G7-0.5		9:30
8		G7-1		
9		G7-1.5		
10		G7-2		

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC | REMARKS

ITEM	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Ledar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	Routine / Caltrans / Legal / RWQCB Level IV	REMARKS
1									X										X						2	1	5	1			
2																															Hold
3																															
4																															
5																															
6																															
7									X										X						2	1	7	1			
8																															Hold
9																															
10																															

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.

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

John Gonzales — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Logan Wicks			Edmund Rodriguez	3-31-15	1230
Edmund Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 3250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Ste 3250
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	Routine / Caltrans / Legal / RWQCB Level IV	REMARKS
Sample Description																																			
1		G7-2.5	3/30/15	9:30									X																	1	8				Hold
2		G7-3		9:30																										1					
3		G8-0.5		11:45									X																2	1	5	1			
4		G8-1																																	Hold
5		G8-1.5																																	
6		G8-2																																	
7		G8-2.5																																	
8		G8-3																																	
9		G9-0.5		11:20									X																2	1	5	1			
10		G9-1																																	Hold

TERMS

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]			EQ2 Edward Rodriguez	3-31-15	1230
EQ2 Edward Rodriguez	3-31-15	1340	[signature]	3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 4

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715		
Method of Transport		Sample Conditions Upon Receipt				
		Condition	Y	N	Condition	Y	N
Client	ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx	OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: LWiOS
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Encircle or Write Requested Analysis: Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Encircle Sample Matrix: Soil	TAT	Container: #	Type	Material	Preservative	QA/QC: Routine / Caltrans / Legal / RWQCB Level IV	REMARKS
1		G9 - 1.5	3/30/15	11:20														Hold
2		G9 - 2																
3		G9 - 2.5																
4		G9 - 3																
5		H8 - 0.5		11:00	X						X	2	1	5	1			
6		H8 - 1																Hold
7		H8 - 1.5																
8		H8 - 2																
9		H8 - 2.5																
10		H8 - 3																

TERMS

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John Gonzales
Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature] Edward Rodriguez	3-31-15	1230	[signature] Edward Rodriguez	3-31-15	1230
[signature] Edward Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L.W.K.M
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
TAT
Container: # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Redlar; 7 = Canister; Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3
QA/QC: Routine, Caltrans, Legal, RWQCB Level IV
REMARKS

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Soil	TAT	#	Type	Material	Preservative	REMARKS
1		H9-0.5	3/30/15	11:10	X	X	2	1	5	1		
2		I7-0.5		9:50	X	X	2	1	5	1		
3		I7-1										Hold
4		I7-1.5										
5		I7-2										
6		I7-2.5										
7		I7-3										
8		I8-0.5		10:10	X	X	2	1	5	1		
9		I8-1										Hold
10		I8-1.5										

TERMS

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   - 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)
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9. Storage and Report Fees:
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10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
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As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			Edward Rodriguez	3-31-15	1230
Edward Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 47 of 49

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wing
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

ITEM	Lab No.	Sample ID / Location	Date	Time	TAT	#	Type	Material	Preservative	QA/QC: Routine / Caltrans / Legal / RWQCB Level IV	REMARKS
1		I8-2	3/30/15	10:10							Hold
2		I8-2.5		↓							↓
3		I8-3		↓							
4		BD6-N0.5		14:36	2	1	5	1			
5		BD6-N1									Hold
6		BD6-N1.5									
7		BD6-N2									
8		BD6-N2.5									
9		BD6-N3									↓
~~10~~		BD6-(	↓								

TERMS

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   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
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As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

John Gonzales — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
ECR Edward Rodriguez	3-31-15	1340	ECR Edward Rodriguez FEDEX	3-31-15	1230
				3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 6 of 6

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715		
Method of Transport		Sample Conditions Upon Receipt				
		Condition	Y	N	Condition	Y	N
Client	ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx	OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wing
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Encircle or Write Requested Analysis: Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Encircle Sample Matrix: Soil	TAT	Container: #	Type	Material	Preservative	QA/QC	REMARKS
1		BD6-S0.5	3/30/15	11:55	X	X	[redacted]	[redacted]	[redacted]	[redacted]	X	2	1	5	1			
2		BD6-S1																Hold
3		BD6-S1.5																
4		BD6-S2																
5		BD6-S2.5																
6		BD6-S3		↓														↓
7		BD6-E0.5		12:38	X	X	[redacted]	[redacted]	[redacted]	[redacted]	X	2	1	5	1			
8		BD6-E1																Hold
9		BD6-E1.5																
10		BD6-E2	↓	↓														↓

Container: Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2SO3
QA/QC: Routine, Caltrans, Legal, RWQCB Level IV

TERMS

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

John Gonzales — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
ECR Edward Rodriguez	3-31-15	1230	ECR Edward Rodriguez	3-31-15	1230
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
ECR Edward Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 2

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715		
Method of Transport		Sample Conditions Upon Receipt				
		Condition	Y	N	Condition	Y	N
Client	ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx	OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L.W.S
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1		BD6-E2.5	3/30/15	
2		BD6-E3		
3		BD6-(NE,S)-0.5		
4				
5		BD7-N 0.5		13:55
6		BD7-N 1		
7		BD7-N 1.5		
8		BD7-N 2		
9		BD7-N 2.5		
10		BD7-N 3		

Encircle or Write Requested Analysis

Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis
										X							
									X								
										X							
									X								
									X								

Encircle Sample Matrix

Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix
X					
X					

TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: Routine, Caltrans, Legal, RWQCB Level IV	REMARKS
						Hold
2	3	5	1			Composite
2	1	5	1			
						Hold

TERMS

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
ECR Edward Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 4

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715	
Method of Transport		Sample Conditions Upon Receipt			
		Condition	Y	N	Condition	Y	N
Client / FedEx / GSO / Other:	ATL / OnTrac	1. CHILLED			5. # OF SAMPLES MATCH COC		
		2. HEADSPACE (VOA)			6. PRESERVED		
		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: / Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: / State: / Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wiles
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Soil	TAT	#	Container Type	Material	Preservative	REMARKS
1		BD7-E0.5	3/30/15	12:23	X	X	[redacted]	[redacted]			X	2	1	5	1		
2		BD7-E1															Hold
3		BD7-E1.5															
4		BD7-E2															
5		BD7-E2.5															
6		BD7-E3		↓													↓
7		BD7-S0.5		12:06		X	[redacted]				X	2	1	5	1		
8		BD7-S1															Hold
9		BD7-S1.5															
10		BD7-S2	↓	↓													↓

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Ziedlar; 7 = Canister | Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (AcZ); 6=NaOH; 7=NA2S2O3
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John Gonzales — Submitter Print Name / Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Eric Edward Rodriguez	3-31-15	1230	Eric Edward Rodriguez	3-31-15	1230
Eric Edward Rodriguez	3-31-15	1340	FEDEX	3/31/15	1340

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

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Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn: / Email:
Company: TRC		Company:
Address: 707 Wilshire Blvd. Ste 3250		Address:
City: Los Angeles	State: CA Zip: 90017	City: / State: / Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L.Wills
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOCs and Oxygenates (8260); VOC's (8260); Enter Custom Analysis; Enter Custom Matrix

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	Soil	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1		BD7-S2.5	3/30/15	12:06										Hold
2		BD7-S3	↓	↓										↓
3		BD7-W0.5	↓	10:19		X	X	X	2	1	5	1		
4		BD7-W1												Hold
5		BD7-W1.5												↓
6		BD7-W2												
7		BD7-W2.5												
8		BD7-W3												↓
9		BD7-(N,E,S,W)-0.5					X	X	2	4	5	1		Composite
10		EQ Blank	↓	13:25	X	X			5	1	P	1/2		

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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.

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

John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature] EQ Edward Rodriguez	3-31-15	1340	[signature] Edward Rodriguez	3-31-15	1230
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
			[signature] FEDEX	3/31/15	1340
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

May 19, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

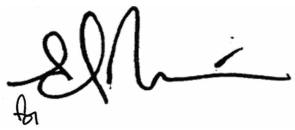
Re: ATL Work Order Number : 1501145

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on March 31, 2015 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,



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

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/19/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DUP-13	1501145-89	Soil	3/30/15 11:55	3/31/15 12:30

CASE NARRATIVE

The sample for EPA 6020 analysis was subcontracted to AETL with DOHS Cert.#1541.

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/19/2015

Client Sample ID DUP-13
Lab ID: 1501145-89

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**5.5**	1.0	1	B5E0434	05/18/2015	05/19/15 10:58	

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0434 - EPA 3050B_S									
Blank (B5E0434-BLK1)				Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	ND	1.0			NR				
LCS (B5E0434-BS1)				Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	49.4703	1.0	50.0000		98.9	80 - 120			
Duplicate (B5E0434-DUP1)		**Source: 1501145-89**		Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	6.18675	1.0		5.52688	NR		11.3	20	
Matrix Spike (B5E0434-MS1)		**Source: 1501145-89**		Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	100.398	1.0	125.000	5.52688	75.9	35 - 129			
Matrix Spike Dup (B5E0434-MSD1)		**Source: 1501145-89**		Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	104.362	1.0	125.000	5.52688	79.1	35 - 129	3.87	20	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/19/2015

Notes and Definitions

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)
TX1	TX-NELAP (TCEQ)

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.

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

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 2
Date Received 05/14/2015
Date Reported 05/19/2015

Job Number	Order Date	Client
76932	05/14/2015	ATL

Project ID: 1501145
Project Name: PO# SC09586

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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

Ordered By

Advanced Technology Laboratories **3275 Walnut Avenue** **Signal Hill, CA 90755-5225**	**Project ID: 1501145** **Date Received 05/14/2015** **Date Reported 05/19/2015**

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76932	05/14/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 05/14/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76932.01	1501145-89	03/30/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	05/18/2015	4	Rush	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501145
Project Name: PO# SC09586

AETL Job Number	Submitted	Client
76932	05/14/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0515151C1

Our Lab I.D.			Method Blank	76932.01			
Client Sample I.D.				1501145-89			
Date Sampled				03/30/2015			
Date Prepared			05/15/2015	05/15/2015			
Preparation Method			3050B	3050B			
Date Analyzed			05/18/2015	05/18/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	1.80			

QUALITY CONTROL REPORT

QC Batch No: 0515151C1; Dup or Spiked Sample: 76931.01; LCS: Clean Sand; QC Prepared: 05/15/2015; QC Analyzed: 05/18/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.38	1.00	3.20	82.0	1.00	3.19	81.0	1.23	80-120	<15

QC Batch No: 0515151C1; Dup or Spiked Sample: 76931.01; LCS: Clean Sand; QC Prepared: 05/15/2015; QC Analyzed: 05/18/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.995	99.5	1.00	1.00	100	<1	80-120	<15	

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

Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER 76932

Work Order: 1501145

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09586 –STANDARD TAT (RA)

IMPORTANT : Please include Work **Order # and PO # in your invoice.**

Analysis		Due	Expires	Sampled	Comments
ATL Lab#: 1501145-89 / DUP-13	**Soil**	76932.01		**03/30/15 11:55**	**Report Arsenic only. SAME SAMPLE AS 1501145-50**
6020_SUB		**05/21/15 17:00**	09/26/15 11:515		
[Individual Metals by ICPMS]					
Glass Jar - 2 oz					

Released By	Date	Received By	Date
	5/14/15	Artin	05/14/15 by1330
Released By	Date	Received By	Date

ADVANCED TECHNOLOGY LABORATORIES

April 17, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501179

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on April 01, 2015 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,



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

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD15-Wa-0.5	1501179-04	Soil	4/01/15 14:19	4/01/15 17:53
BD15-Wa-1	1501179-05	Soil	4/01/15 14:19	4/01/15 17:53
BD15-Na-0.5	1501179-10	Soil	4/01/15 14:55	4/01/15 17:53
BD3-N-0.5	1501179-15	Soil	4/01/15 10:55	4/01/15 17:53
BD15(Na,Wa,Wb)-0.5	1501179-22	Soil	4/01/15 0:00	4/01/15 17:53
BD15(Nb,Ea,Eb)-0.5	1501179-23	Soil	4/01/15 0:00	4/01/15 17:53
BD1-S-0.5	1501179-24	Soil	4/01/15 11:15	4/01/15 17:53
BD1(N,S,W,E)-0.5	1501179-30	Soil	4/01/15 0:00	4/01/15 17:53
BD2(N,S,W,E)-0.5	1501179-31	Soil	4/01/15 0:00	4/01/15 17:53
BD25(N,S,W)-0.5	1501179-32	Soil	4/01/15 0:00	4/01/15 17:53
BD3-S-0.5	1501179-33	Soil	4/01/15 11:45	4/01/15 17:53
BD3 (N,S)-0.5	1501179-39	Soil	4/01/15 0:00	4/01/15 17:53
BD4 (N,S,W,E)-0.5	1501179-40	Soil	4/01/15 0:00	4/01/15 17:53
BD27 (N,W,E)-0.5	1501179-41	Soil	4/01/15 0:00	4/01/15 17:53
CY-S-0.5	1501179-42	Soil	4/01/15 13:10	4/01/15 17:53
CY-N-0.5	1501179-48	Soil	4/01/15 13:45	4/01/15 17:53
BD15-Wb-0.5	1501179-49	Soil	4/01/15 13:57	4/01/15 17:53
BD1-N-0.5	1501179-54	Soil	4/01/15 9:34	4/01/15 17:53
BD2-N-0.5	1501179-60	Soil	4/01/15 10:04	4/01/15 17:53
BD15-Nb-0.5	1501179-67	Soil	4/01/15 15:25	4/01/15 17:53
BD25-W-0.5	1501179-72	Soil	4/01/15 8:15	4/01/15 17:53
BD1-W-0.5	1501179-78	Soil	4/01/15 9:01	4/01/15 17:53

CASE NARRATIVE

The samples for EPA 6020 analysis were subcontracted to AETL with DOHS Cert.#1541.

Sample Receiving/General Comments:

All samples were collected 4/1/15 per sample container labels.

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501179-04	BD15-Wa-0.5	**83**	mg/kg	1.0	1	B5D0046	04/03/2015	04/03/15 16:05	
1501179-05	BD15-Wa-1	**26**	mg/kg	1.0	1	B5D0372	04/11/2015	04/12/15 13:24	
1501179-10	BD15-Na-0.5	**49**	mg/kg	1.0	1	B5D0046	04/03/2015	04/03/15 16:11	
1501179-15	BD3-N-0.5	**4.3**	mg/kg	1.0	1	B5D0246	04/08/2015	04/09/15 11:12	
1501179-24	BD1-S-0.5	**6.9**	mg/kg	1.0	1	B5D0246	04/08/2015	04/09/15 11:19	
1501179-33	BD3-S-0.5	**24**	mg/kg	1.0	1	B5D0046	04/03/2015	04/03/15 16:13	
1501179-49	BD15-Wb-0.5	**55**	mg/kg	1.0	1	B5D0046	04/03/2015	04/03/15 16:15	
1501179-54	BD1-N-0.5	**7.0**	mg/kg	1.0	1	B5D0246	04/08/2015	04/09/15 11:21	
1501179-60	BD2-N-0.5	**7.1**	mg/kg	1.0	1	B5D0246	04/08/2015	04/09/15 11:22	
1501179-67	BD15-Nb-0.5	**66**	mg/kg	1.0	1	B5D0246	04/08/2015	04/09/15 11:24	
1501179-72	BD25-W-0.5	**4.0**	mg/kg	1.0	1	B5D0246	04/08/2015	04/09/15 11:43	
1501179-78	BD1-W-0.5	**11**	mg/kg	1.0	1	B5D0246	04/08/2015	04/09/15 11:45	

STLC Metals by ICP-AES by EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501179-04	BD15-Wa-0.5	**3.1**	mg/L	1.0	20	B5D0509	04/16/2015	04/16/15 16:23	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Client Sample ID BD15(Na,Wa,Wb)-0.5
Lab ID: 1501179-22

Organochlorine Pesticides by EPA 8081 — **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
4,4´-DDE [2C]	**62**	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
4,4´-DDT [2C]	**23**	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Aldrin	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
alpha-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
alpha-Chlordane	**2.4**	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
beta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Chlordane [2C]	**23**	8.5	1	B5D0193	04/07/2015	04/07/15 12:47	
delta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Dieldrin [2C]	**3.6**	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Endosulfan I	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Endosulfan II	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Endosulfan sulfate	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Endrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Endrin aldehyde	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Endrin ketone	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:47	
gamma-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
gamma-Chlordane [2C]	**1.9**	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Heptachlor	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Heptachlor epoxide	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Methoxychlor	ND	5.0	1	B5D0193	04/07/2015	04/07/15 12:47	
Toxaphene	ND	50	1	B5D0193	04/07/2015	04/07/15 12:47	
Surrogate: Decachlorobiphenyl	*73.2 %*	*16 - 137*		B5D0193	04/07/2015	*04/07/15 12:47*	
Surrogate: Tetrachloro-m-xylene	*65.6 %*	*16 - 105*		B5D0193	04/07/2015	*04/07/15 12:47*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Client Sample ID BD15(Nb,Ea,Eb)-0.5
Lab ID: 1501179-23

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
4,4´-DDE [2C]	**13**	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
4,4´-DDT [2C]	**19**	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Aldrin	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
alpha-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
alpha-Chlordane	**20**	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
beta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Chlordane	**130**	8.5	1	B5D0193	04/07/2015	04/07/15 12:58	
delta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Dieldrin [2C]	**12**	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Endosulfan I	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Endosulfan II	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Endosulfan sulfate	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Endrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Endrin aldehyde	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Endrin ketone	ND	2.0	1	B5D0193	04/07/2015	04/07/15 12:58	
gamma-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
gamma-Chlordane [2C]	**11**	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Heptachlor [2C]	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Heptachlor epoxide [2C]	ND	1.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Methoxychlor	ND	5.0	1	B5D0193	04/07/2015	04/07/15 12:58	
Toxaphene	ND	50	1	B5D0193	04/07/2015	04/07/15 12:58	
Surrogate: Decachlorobiphenyl	*69.2 %*	*16 - 137*		B5D0193	04/07/2015	*04/07/15 12:58*	
Surrogate: Tetrachloro-m-xylene	*64.2 %*	*16 - 105*		B5D0193	04/07/2015	*04/07/15 12:58*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Client Sample ID BD1(N,S,W,E)-0.5
Lab ID: 1501179-30

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
4,4´-DDE	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
4,4´-DDT	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Aldrin	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
alpha-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
alpha-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
beta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Chlordane	ND	8.5	1	B5D0193	04/07/2015	04/07/15 13:08	
delta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Dieldrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Endosulfan I	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Endosulfan II	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Endosulfan sulfate	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Endrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Endrin aldehyde	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Endrin ketone	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:08	
gamma-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
gamma-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Heptachlor	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Heptachlor epoxide	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Methoxychlor	ND	5.0	1	B5D0193	04/07/2015	04/07/15 13:08	
Toxaphene	ND	50	1	B5D0193	04/07/2015	04/07/15 13:08	
Surrogate: Decachlorobiphenyl	*75.7 %*	*16 - 137*		B5D0193	04/07/2015	*04/07/15 13:08*	
Surrogate: Tetrachloro-m-xylene	*76.2 %*	*16 - 105*		B5D0193	04/07/2015	*04/07/15 13:08*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Client Sample ID BD2(N,S,W,E)-0.5
Lab ID: 1501179-31

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
4,4´-DDE	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
4,4´-DDT	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Aldrin	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
alpha-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
alpha-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
beta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Chlordane	ND	8.5	1	B5D0193	04/07/2015	04/07/15 13:19	
delta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Dieldrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Endosulfan I	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Endosulfan II	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Endosulfan sulfate	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Endrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Endrin aldehyde	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Endrin ketone	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:19	
gamma-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
gamma-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Heptachlor	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Heptachlor epoxide	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Methoxychlor	ND	5.0	1	B5D0193	04/07/2015	04/07/15 13:19	
Toxaphene	ND	50	1	B5D0193	04/07/2015	04/07/15 13:19	
Surrogate: Decachlorobiphenyl	*71.3 %*	*16 - 137*		B5D0193	04/07/2015	*04/07/15 13:19*	
Surrogate: Tetrachloro-m-xylene	*69.1 %*	*16 - 105*		B5D0193	04/07/2015	*04/07/15 13:19*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Client Sample ID BD25(N,S,W)-0.5
Lab ID: 1501179-32

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
4,4´-DDE [2C]	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
4,4´-DDT	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Aldrin	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
alpha-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
alpha-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
beta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Chlordane	ND	8.5	1	B5D0193	04/07/2015	04/07/15 13:29	
delta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Dieldrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Endosulfan I	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Endosulfan II	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Endosulfan sulfate	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Endrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Endrin aldehyde	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Endrin ketone	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:29	
gamma-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
gamma-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Heptachlor	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Heptachlor epoxide	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Methoxychlor	ND	5.0	1	B5D0193	04/07/2015	04/07/15 13:29	
Toxaphene	ND	50	1	B5D0193	04/07/2015	04/07/15 13:29	
Surrogate: Decachlorobiphenyl	*69.1 %*	*16 - 137*		B5D0193	04/07/2015	*04/07/15 13:29*	
Surrogate: Tetrachloro-m-xylene	*67.9 %*	*16 - 105*		B5D0193	04/07/2015	*04/07/15 13:29*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Client Sample ID BD3 (N,S)-0.5
Lab ID: 1501179-39

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
4,4´-DDE [2C]	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
4,4´-DDT	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Aldrin	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
alpha-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
alpha-Chlordane [2C]	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
beta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Chlordane	ND	8.5	1	B5D0193	04/07/2015	04/07/15 13:39	
delta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Dieldrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Endosulfan I	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Endosulfan II	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Endosulfan sulfate	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Endrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Endrin aldehyde	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Endrin ketone	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:39	
gamma-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
gamma-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Heptachlor	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Heptachlor epoxide	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Methoxychlor	ND	5.0	1	B5D0193	04/07/2015	04/07/15 13:39	
Toxaphene	ND	50	1	B5D0193	04/07/2015	04/07/15 13:39	
Surrogate: Decachlorobiphenyl	*61.7 %*	*16 - 137*		B5D0193	04/07/2015	*04/07/15 13:39*	
Surrogate: Tetrachloro-m-xylene	*60.5 %*	*16 - 105*		B5D0193	04/07/2015	*04/07/15 13:39*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Client Sample ID BD4 (N,S,W,E)-0.5
Lab ID: 1501179-40

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
4,4´-DDE	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
4,4´-DDT	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Aldrin	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
alpha-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
alpha-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
beta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Chlordane	ND	8.5	1	B5D0193	04/07/2015	04/07/15 13:50	
delta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Dieldrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Endosulfan I	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Endosulfan II	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Endosulfan sulfate	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Endrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Endrin aldehyde	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Endrin ketone	ND	2.0	1	B5D0193	04/07/2015	04/07/15 13:50	
gamma-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
gamma-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Heptachlor	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Heptachlor epoxide	ND	1.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Methoxychlor	ND	5.0	1	B5D0193	04/07/2015	04/07/15 13:50	
Toxaphene	ND	50	1	B5D0193	04/07/2015	04/07/15 13:50	
Surrogate: Decachlorobiphenyl	*61.9 %*	*16 - 137*		B5D0193	04/07/2015	*04/07/15 13:50*	
Surrogate: Tetrachloro-m-xylene	*61.6 %*	*16 - 105*		B5D0193	04/07/2015	*04/07/15 13:50*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Client Sample ID BD27 (N,W,E)-0.5
Lab ID: 1501179-41

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
4,4´-DDE [2C]	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
4,4´-DDT	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Aldrin	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
alpha-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
alpha-Chlordane	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
beta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Chlordane [2C]	ND	8.5	1	B5D0193	04/07/2015	04/07/15 14:00	
delta-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Dieldrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Endosulfan I	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Endosulfan II	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Endosulfan sulfate	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Endrin	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Endrin aldehyde	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Endrin ketone	ND	2.0	1	B5D0193	04/07/2015	04/07/15 14:00	
gamma-BHC	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
gamma-Chlordane [2C]	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Heptachlor	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Heptachlor epoxide	ND	1.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Methoxychlor	ND	5.0	1	B5D0193	04/07/2015	04/07/15 14:00	
Toxaphene	ND	50	1	B5D0193	04/07/2015	04/07/15 14:00	
Surrogate: Decachlorobiphenyl	*65.3 %*	*16 - 137*		B5D0193	04/07/2015	*04/07/15 14:00*	
Surrogate: Tetrachloro-m-xylene	*66.1 %*	*16 - 105*		B5D0193	04/07/2015	*04/07/15 14:00*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0046 - EPA 3050B_S									
Blank (B5D0046-BLK1)					Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	ND	1.0			NR				
LCS (B5D0046-BS1)					Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	45.6864	1.0	50.0000		91.4	80 - 120			
Duplicate (B5D0046-DUP1)		**Source: 1501179-04**			Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	75.5157	1.0		83.2261	NR		9.71	20	
Matrix Spike (B5D0046-MS1)		**Source: 1501179-04**			Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	161.802	1.0	125.000	83.2261	62.9	35 - 129			
Matrix Spike Dup (B5D0046-MSD1)		**Source: 1501179-04**			Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	166.190	1.0	125.000	83.2261	66.4	35 - 129	2.68	20	
Batch B5D0246 - EPA 3050B_S									
Blank (B5D0246-BLK1)					Prepared: 4/8/2015 Analyzed: 4/9/2015				
Lead	ND	1.0			NR				
LCS (B5D0246-BS1)					Prepared: 4/8/2015 Analyzed: 4/9/2015				
Lead	48.2715	1.0	50.0000		96.5	80 - 120			
Duplicate (B5D0246-DUP1)		**Source: 1501179-15**			Prepared: 4/8/2015 Analyzed: 4/9/2015				
Lead	4.17922	1.0		4.31646	NR		3.23	20	
Matrix Spike (B5D0246-MS1)		**Source: 1501179-15**			Prepared: 4/8/2015 Analyzed: 4/9/2015				
Lead	99.8702	1.0	124.378	4.31646	76.8	35 - 129			
Matrix Spike Dup (B5D0246-MSD1)		**Source: 1501179-15**			Prepared: 4/8/2015 Analyzed: 4/9/2015				
Lead	100.698	1.0	125.000	4.31646	77.1	35 - 129	0.826	20	
Batch B5D0372 - EPA 3050B_S									
Blank (B5D0372-BLK1)					Prepared: 4/11/2015 Analyzed: 4/13/2015				
Lead	ND	1.0			NR				
LCS (B5D0372-BS1)					Prepared: 4/11/2015 Analyzed: 4/12/2015				
Lead	47.6025	1.0	50.0000		95.2	80 - 120			
Matrix Spike (B5D0372-MS1)		**Source: 1501179-05**			Prepared: 4/11/2015 Analyzed: 4/12/2015				
Lead	119.566	1.0	125.000	26.1917	74.7	35 - 129			
Matrix Spike Dup (B5D0372-MSD1)		**Source: 1501179-05**			Prepared: 4/11/2015 Analyzed: 4/12/2015				
Lead	135.994	1.0	125.000	26.1917	87.8	35 - 129	12.9	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0509 - STLC_S Extraction									
Blank (B5D0509-BLK1)					Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	ND	1.0			NR				
LCS (B5D0509-BS1)					Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	1.92010		2.00000		96.0	80 - 120			
Duplicate (B5D0509-DUP1)		**Source: 1501218-15**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	9.91477	1.0		6.78559	NR		37.5	20	R
Matrix Spike (B5D0509-MS1)		**Source: 1501218-15**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	8.87233		2.50000	6.78559	83.5	44 - 130			
Matrix Spike Dup (B5D0509-MSD1)		**Source: 1501218-15**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	8.58707		2.50000	6.78559	72.1	44 - 130	3.27	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0193 - GCSEMI_PCB/PEST_S									
Blank (B5D0193-BLK1)					Prepared: 4/7/2015 Analyzed: 4/7/2015				
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*13.17*		*16.6667*		*79.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*13.30*		*16.6667*		*79.8*	*16 - 137*			

Certificate of Analysis

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0193 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5D0193-BLK1) - Continued					Prepared: 4/7/2015 Analyzed: 4/7/2015				
Surrogate: Tetrachloro-m-xylene	*12.90*		*16.6667*		*77.4*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.38*		*16.6667*		*80.3*	*16 - 105*			
LCS (B5D0193-BS1)					Prepared: 4/7/2015 Analyzed: 4/7/2015				
4,4´-DDD	13.4673	2.0	16.6667		80.8	58 - 100			
4,4´-DDD [2C]	14.3617	2.0	16.6667		86.2	58 - 100			
4,4´-DDE	14.7077	2.0	16.6667		88.2	65 - 99			
4,4´-DDE [2C]	15.6817	2.0	16.6667		94.1	65 - 99			
4,4´-DDT	14.1507	2.0	16.6667		84.9	39 - 116			
4,4´-DDT [2C]	14.6445	2.0	16.6667		87.9	39 - 116			
Aldrin	14.3557	1.0	16.6667		86.1	57 - 94			
Aldrin [2C]	15.2893	1.0	16.6667		91.7	57 - 94			
alpha-BHC	13.4407	1.0	16.6667		80.6	58 - 84			
alpha-BHC [2C]	14.1310	1.0	16.6667		84.8	58 - 84			L3
alpha-Chlordane	14.3532	1.0	16.6667		86.1	58 - 96			
alpha-Chlordane [2C]	15.3210	1.0	16.6667		91.9	58 - 96			
beta-BHC	12.9980	1.0	16.6667		78.0	58 - 87			
beta-BHC [2C]	13.5223	1.0	16.6667		81.1	58 - 87			
delta-BHC	13.7393	1.0	16.6667		82.4	18 - 75			L3
delta-BHC [2C]	14.7108	1.0	16.6667		88.3	18 - 75			L3
Dieldrin	14.0757	2.0	16.6667		84.5	62 - 94			
Dieldrin [2C]	14.4993	2.0	16.6667		87.0	62 - 94			
Endosulfan I	13.3225	1.0	16.6667		79.9	58 - 90			
Endosulfan I [2C]	14.0602	1.0	16.6667		84.4	58 - 90			
Endosulfan II	13.6483	2.0	16.6667		81.9	63 - 95			
Endosulfan II [2C]	14.0227	2.0	16.6667		84.1	63 - 95			
Endosulfan sulfate	16.2377	2.0	16.6667		97.4	59 - 89			L3
Endosulfan Sulfate [2C]	16.2415	2.0	16.6667		97.4	59 - 89			L3
Endrin	14.4353	2.0	16.6667		86.6	64 - 96			
Endrin [2C]	14.9718	2.0	16.6667		89.8	64 - 96			
Endrin aldehyde	13.3592	2.0	16.6667		80.2	65 - 95			
Endrin aldehyde [2C]	14.2917	2.0	16.6667		85.8	65 - 95			
Endrin ketone	12.3492	2.0	16.6667		74.1	59 - 101			
Endrin ketone [2C]	12.3630	2.0	16.6667		74.2	59 - 101			
gamma-BHC	13.7645	1.0	16.6667		82.6	63 - 89			
gamma-BHC [2C]	14.6327	1.0	16.6667		87.8	63 - 89			
gamma-Chlordane	14.3088	1.0	16.6667		85.9	61 - 95			
gamma-Chlordane [2C]	15.1518	1.0	16.6667		90.9	61 - 95			
Heptachlor	14.5775	1.0	16.6667		87.5	65 - 102			
Heptachlor [2C]	15.4117	1.0	16.6667		92.5	65 - 102			
Heptachlor epoxide	14.3818	1.0	16.6667		86.3	61 - 95			
Heptachlor epoxide [2C]	15.0473	1.0	16.6667		90.3	61 - 95			
Methoxychlor	14.6222	5.0	16.6667		87.7	29 - 128			
Methoxychlor [2C]	13.6555	5.0	16.6667		81.9	29 - 128			
Surrogate: Decachlorobiphenyl	*12.44*		*16.6667*		*74.7*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.23*		*16.6667*		*73.4*	*16 - 137*			

TRC
707 Wilshire Blvd., Suite 3250
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Project Number : LAUSD Foshay, 231058.0000.0004
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Reported : 04/17/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0193 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5D0193-BS1) - Continued					Prepared: 4/7/2015 Analyzed: 4/7/2015				
Surrogate: Tetrachloro-m-xylene	*12.14*		*16.6667*		*72.8*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.73*		*16.6667*		*76.4*	*16 - 105*			
Matrix Spike (B5D0193-MS1)		**Source: 1501179-40**			Prepared: 4/7/2015 Analyzed: 4/7/2015				
4,4´-DDD	11.6992	2.0	16.6667	ND	70.2	27 - 123			
4,4´-DDD [2C]	12.7728	2.0	16.6667	ND	76.6	27 - 123			
4,4´-DDE	13.5897	2.0	16.6667	0.333000	79.5	28 - 126			
4,4´-DDE [2C]	14.7075	2.0	16.6667	0.313000	86.4	28 - 126			
4,4´-DDT	13.7167	2.0	16.6667	0.917833	76.8	12 - 149			
4,4´-DDT [2C]	14.5835	2.0	16.6667	0.856667	82.4	12 - 149			
Aldrin	12.7868	1.0	16.6667	ND	76.7	29 - 116			
Aldrin [2C]	13.7070	1.0	16.6667	ND	82.2	29 - 116			
alpha-BHC	11.8708	1.0	16.6667	ND	71.2	27 - 104			
alpha-BHC [2C]	12.5120	1.0	16.6667	ND	75.1	27 - 104			
alpha-Chlordane	12.7213	1.0	16.6667	ND	76.3	14 - 130			
alpha-Chlordane [2C]	13.7557	1.0	16.6667	ND	82.5	14 - 130			
beta-BHC	11.3315	1.0	16.6667	ND	68.0	20 - 115			
beta-BHC [2C]	11.7343	1.0	16.6667	ND	70.4	20 - 115			
delta-BHC	11.1697	1.0	16.6667	ND	67.0	8 - 78			
delta-BHC [2C]	11.8133	1.0	16.6667	ND	70.9	8 - 78			
Dieldrin	12.1613	2.0	16.6667	ND	73.0	20 - 134			
Dieldrin [2C]	12.5880	2.0	16.6667	ND	75.5	20 - 134			
Endosulfan I	11.7772	1.0	16.6667	ND	70.7	27 - 114			
Endosulfan I [2C]	12.4665	1.0	16.6667	ND	74.8	27 - 114			
Endosulfan II	9.91533	2.0	16.6667	ND	59.5	16 - 125			
Endosulfan II [2C]	10.2825	2.0	16.6667	ND	61.7	16 - 125			
Endosulfan sulfate	9.02500	2.0	16.6667	ND	54.1	1 - 126			
Endosulfan Sulfate [2C]	8.95267	2.0	16.6667	ND	53.7	1 - 126			
Endrin	12.7690	2.0	16.6667	ND	76.6	33 - 122			
Endrin [2C]	13.2303	2.0	16.6667	ND	79.4	33 - 122			
Endrin aldehyde	7.33850	2.0	16.6667	ND	44.0	0 - 137			
Endrin aldehyde [2C]	7.42133	2.0	16.6667	ND	44.5	0 - 137			
Endrin ketone	7.74717	2.0	16.6667	ND	46.5	10 - 126			
Endrin ketone [2C]	8.10250	2.0	16.6667	ND	48.6	10 - 126			
gamma-BHC	11.7755	1.0	16.6667	ND	70.7	30 - 111			
gamma-BHC [2C]	12.6137	1.0	16.6667	ND	75.7	30 - 111			
gamma-Chlordane	12.4943	1.0	16.6667	ND	75.0	16 - 130			
gamma-Chlordane [2C]	13.3820	1.0	16.6667	ND	80.3	16 - 130			
Heptachlor	13.0770	1.0	16.6667	ND	78.5	34 - 127			
Heptachlor [2C]	13.9730	1.0	16.6667	ND	83.8	34 - 127			
Heptachlor epoxide	12.6445	1.0	16.6667	ND	75.9	19 - 130			
Heptachlor epoxide [2C]	13.2483	1.0	16.6667	ND	79.5	19 - 130			
Methoxychlor	11.8643	5.0	16.6667	ND	71.2	16 - 153			
Methoxychlor [2C]	11.6362	5.0	16.6667	ND	69.8	16 - 153			
Surrogate: Decachlorobiphenyl	*11.62*		*16.6667*		*69.7*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.16*		*16.6667*		*66.9*	*16 - 137*			

TRC
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Project Number : LAUSD Foshay, 231058.0000.0004
Report To : John C. Gonzales
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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0193 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0193-MS1) - Continued		**Source: 1501179-40**			Prepared: 4/7/2015 Analyzed: 4/7/2015				
Surrogate: Tetrachloro-m-xylene	*10.62*		*16.6667*		*63.7*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.32*		*16.6667*		*67.9*	*16 - 105*			
Matrix Spike Dup (B5D0193-MSD1)		**Source: 1501179-40**			Prepared: 4/7/2015 Analyzed: 4/7/2015				
4,4´-DDD	11.5093	2.0	16.6667	ND	69.1	27 - 123	1.64	20	
4,4´-DDD [2C]	12.6425	2.0	16.6667	ND	75.9	27 - 123	1.03	20	
4,4´-DDE	13.2363	2.0	16.6667	0.333000	77.4	28 - 126	2.63	20	
4,4´-DDE [2C]	14.5462	2.0	16.6667	0.313000	85.4	28 - 126	1.10	20	
4,4´-DDT	13.4393	2.0	16.6667	0.917833	75.1	12 - 149	2.04	20	
4,4´-DDT [2C]	14.4592	2.0	16.6667	0.856667	81.6	12 - 149	0.856	20	
Aldrin	12.7338	1.0	16.6667	ND	76.4	29 - 116	0.415	20	
Aldrin [2C]	13.7423	1.0	16.6667	ND	82.5	29 - 116	0.257	20	
alpha-BHC	11.9657	1.0	16.6667	ND	71.8	27 - 104	0.796	20	
alpha-BHC [2C]	12.6720	1.0	16.6667	ND	76.0	27 - 104	1.27	20	
alpha-Chlordane	12.4752	1.0	16.6667	ND	74.9	14 - 130	1.95	20	
alpha-Chlordane [2C]	13.7058	1.0	16.6667	ND	82.2	14 - 130	0.363	20	
beta-BHC	11.3970	1.0	16.6667	ND	68.4	20 - 115	0.576	20	
beta-BHC [2C]	11.8522	1.0	16.6667	ND	71.1	20 - 115	0.999	20	
delta-BHC	11.3760	1.0	16.6667	ND	68.3	8 - 78	1.83	20	
delta-BHC [2C]	12.1592	1.0	16.6667	ND	73.0	8 - 78	2.89	20	
Dieldrin	11.8610	2.0	16.6667	ND	71.2	20 - 134	2.50	20	
Dieldrin [2C]	12.4963	2.0	16.6667	ND	75.0	20 - 134	0.731	20	
Endosulfan I	11.5672	1.0	16.6667	ND	69.4	27 - 114	1.80	20	
Endosulfan I [2C]	12.3790	1.0	16.6667	ND	74.3	27 - 114	0.704	20	
Endosulfan II	9.91133	2.0	16.6667	ND	59.5	16 - 125	0.0403	20	
Endosulfan II [2C]	10.3165	2.0	16.6667	ND	61.9	16 - 125	0.330	20	
Endosulfan sulfate	9.07683	2.0	16.6667	ND	54.5	1 - 126	0.573	20	
Endosulfan Sulfate [2C]	9.08733	2.0	16.6667	ND	54.5	1 - 126	1.49	20	
Endrin	12.4538	2.0	16.6667	ND	74.7	33 - 122	2.50	20	
Endrin [2C]	13.0927	2.0	16.6667	ND	78.6	33 - 122	1.05	20	
Endrin aldehyde	8.00867	2.0	16.6667	ND	48.1	0 - 137	8.73	20	
Endrin aldehyde [2C]	7.44117	2.0	16.6667	ND	44.6	0 - 137	0.267	20	
Endrin ketone	7.90350	2.0	16.6667	ND	47.4	10 - 126	2.00	20	
Endrin ketone [2C]	8.33717	2.0	16.6667	ND	50.0	10 - 126	2.85	20	
gamma-BHC	11.8713	1.0	16.6667	ND	71.2	30 - 111	0.811	20	
gamma-BHC [2C]	12.7898	1.0	16.6667	ND	76.7	30 - 111	1.39	20	
gamma-Chlordane	12.3158	1.0	16.6667	ND	73.9	16 - 130	1.44	20	
gamma-Chlordane [2C]	13.4050	1.0	16.6667	ND	80.4	16 - 130	0.172	20	
Heptachlor	13.0790	1.0	16.6667	ND	78.5	34 - 127	0.0153	20	
Heptachlor [2C]	14.0610	1.0	16.6667	ND	84.4	34 - 127	0.628	20	
Heptachlor epoxide	12.5728	1.0	16.6667	ND	75.4	19 - 130	0.568	20	
Heptachlor epoxide [2C]	13.2743	1.0	16.6667	ND	79.6	19 - 130	0.196	20	
Methoxychlor	11.6305	5.0	16.6667	ND	69.8	16 - 153	1.99	20	
Methoxychlor [2C]	11.3427	5.0	16.6667	ND	68.1	16 - 153	2.55	20	
Surrogate: Decachlorobiphenyl	*11.16*		*16.6667*		*67.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*10.60*		*16.6667*		*63.6*	*16 - 137*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
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Los Angeles , CA 90017	Reported : 04/17/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0193 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0193-MSD1) - Continued			**Source: 1501179-40**		Prepared: 4/7/2015 Analyzed: 4/7/2015				
Surrogate: Tetrachloro-m-xylene	*10.61*		*16.6667*		*63.7*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.37*		*16.6667*		*68.2*	*16 - 105*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
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Los Angeles , CA 90017	Reported : 04/17/2015

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
L3	Laboratory control sample outside in-house established limits but within method criteria.
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)
TX1	TX-NELAP (TCEQ)

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.

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

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 3
Date Received 04/02/2015
Date Reported 04/03/2015

Job Number	Order Date	Client
76491	04/02/2015	ATL

Project ID: 1501179
Project Name: PO# SC09481

Enclosed please find results of analyses of 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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

Ordered By

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755-5225

Project ID: 1501179 Date Received 04/02/2015 Date Reported 04/03/2015

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76491	04/02/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 4 samples with the following specification on 04/02/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76491.01	1501179-24	04/01/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/09/2015	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76491.02	1501179-42	04/01/2015	Soil	1
76491.03	1501179-48	04/01/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/03/2015	2	Rush	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501179
Project Name: PO# SC09481

AETL Job Number	Submitted	Client
76491	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			04/03/2015				
Preparation Method			3050B				
Date Analyzed			04/03/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

QUALITY CONTROL REPORT

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.11	5.00	8.91	116	5.00	9.11	120	3.39	80-120	<15

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.868	86.8	1.00	0.945	94.5	8.49	80-120	<15	

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ANALYTICAL RESULTS

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Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 3

Project ID: 1501179
Project Name: PO# SC09481

AETL Job Number	Submitted	Client
76491	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C2

Our Lab I.D.			76491.01	76491.02	76491.03	76491.04	
Client Sample I.D.			1501179-24	1501179-42	1501179-48	1501179-72	
Date Sampled			04/01/2015	04/01/2015	04/01/2015	04/01/2015	
Date Prepared			04/03/2015	04/03/2015	04/03/2015	04/03/2015	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			04/03/2015	04/03/2015	04/03/2015	04/03/2015	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			5	5	5	5	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.25	0.50	3.11	1.51	2.49	6.86	

QUALITY CONTROL REPORT

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	3.11	5.00	8.91	116	5.00	9.11	120	3.39	80-120	<15

QC Batch No: 0403151C2; Dup or Spiked Sample: 76491.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.868	86.8	1.00	0.945	94.5	8.49	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76491

SUBCONTRACT ORDER

Work Order: 1501179

SENDING LABORATORY:	RECEIVING LABORATORY:
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09481-RUSH TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501179-24 / BD1-S-0.5		Soil 76491.01	04/01/15 11:15	**PLEASE REPORT ARSENIC. SOME SAMPLES ARE STANDARD TAT PLEASE SEE DUE DATE INDICATED.**
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**04/09/15 15:00**	09/28/15 11:15		
ATL Lab#: 1501179-42 / C4-S-0.5		**Soil**	**04/01/15 13:10**	76491.02
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 13:10		
ATL Lab#: 1501179-48 / C4-N-0.5		**Soil**	**04/01/15 13:45**	76491.03
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 13:45		
ATL Lab#: 1501179-72 / BD25-W-0.5		**Soil**	**04/01/15 08:15**	76491.04
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**04/09/15 15:00**	09/28/15 08:15		

Released By	Date	Received By	Date
	4/2/15 1408		4/2/15 1408
Released By	Date	Received By	Date
	4/2/15		04/02/15 1615

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport	Sample Conditions Upon Receipt					
	Condition	Y	N	Condition	Y	N
Client (ATL)	1. CHILLED	✓		5. # OF SAMPLES MATCH COC	✓	
FedEx OnTrac	2. HEADSPACE (VOA)			6. PRESERVED	✓	
GSO	3. CONTAINER INTACT	✓		7. COOLER TEMP, deg C:	5.4, 5.5	
Other:	4. SEALED	✓				

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: John Gonzales
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOCs and Oxygenates (8260)	VOC's (8260)	Soil	TAT	Container #	Container Type	Container Material	QA/QC	REMARKS
1	150179 - 1	BD15-Wb-2	4/1/15	1:57									1	1	3	Routine	Hold
2	- 2	BD15-Wb-2.5											1	1	3		
3	- 3	BD15-Wb-3		↓									1	1	3		↓
4	- 4	BD15-Wa-0.5		2:15		X						2	1	1	3		
5	- 5	BD15-Wa-1											1	1	3		Hold
6	- 6	BD15-Wa-1.5											1	1	3		
7	- 7	BD15-Wa-2											1	1	3		↓
8	- 8	BD15-Wa-2.5											1	1	3		
9	- 9	BD15-Wa-3		↓									1	1	3		↓
10	- 10	BD15-Na-0.5		2:55		X						2	1	1	3		

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOCs and Oxygenates (8260); VOC's (8260); Enter Custom Analysis
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3
QA/QC: Routine, Caltrans, Legal, RWQCB Level IV

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.

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

John Gonzales
Submitter Print Name — Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
1		4/1/15	5:43		4/1/15	1743
2		4/1/15	1850		4/1/15	1850
3						

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: John Gonzales
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: Routine / Caltrans / Legal / RWQCB Level IV	REMARKS
1	150179-11	BD2-N-1.5	4/1/15	10:04	8	1	1	3			Hold
2	-12	BD2-N-2		↓		1	1	3			↓
3	-13	BD2-N-2.5				1	1	3			
4	-14	BD2-N-3		↓		1	1	3			↓
5	-15	BD3-N-0.5		10:55	5	1	1	3			
6	-16	BD3-N-1		↓		1	1	3			Hold
7	-17	BD3-N-1.5				1	1	3			↓
8	-18	BD3-N-2				1	1	3			
9	-19	BD3-N-2.5				1	1	3			
10	-20	BD3-N-3		↓		1	1	3			↓

TERMS

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

John Gonzales — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]	4/1/15	5:43	[signature]	4/1/15	17:43
[signature]	4/1/15	1850	[signature]	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / FedEx / GSO / Other:	ATL OnTrac	1. CHILLED		5. # OF SAMPLES MATCH COC	
		2. HEADSPACE (VOA)		6. PRESERVED	
		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

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Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: John Gonzales
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1501179-21	BD15 Nh - 3	4/1/15	3:25		1	1	3		Hold
2	-22	BD15(Na, Wa, Wb)-0.5			5	3	1	3		Composite
3	-23	BD15(Nb, Ea, Eb)-0.5			5	3	1	3		Composite
4						3	1	3		
5										
6										
7										
8										
9										
10										

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

TERMS

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   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
   - TAT = 4 : 20% Surcharge 4TH BUSINESS DAY (COB 5:00 PM)
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   - 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.

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

John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date: 4/1/15	Time: 5:43	Received by: (Signature and Printed Name)	Date: 4/1/15	Time: 1743
Relinquished by: (Signature and Printed Name)	Date: 4/1/15	Time: 1850	Received by: (Signature and Printed Name)	Date: 4/1/15	Time: 1850
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 7

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 3250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Ste 3250
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: John Gonzales
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	TAT	Container #	Container Type	Container Material	Preservative	QA/QC	REMARKS
1	15011179 - 24	BD1-S-0.5	4/1/15	11:15	X	X					5	1	1	2			
2	- 25	BD1-S-1										1	1	3			Hold
3	- 26	BD1-S-1.5										1	1	3			
4	- 27	BD1-S-2										1	1	3			
5	- 28	BD1-S-2.5										1	1	3			
6	- 29	BD1-S-3										1	1	3			
7	- 30	BD1 (N,S,W,E)-0.5					X				5	4	1	3			Composite
8	- 31	BD2 (N,S,W,E)-0.5					X				5	4	1	3			Composite
9	- 32	BD25 (N,S,W,E)-0.5					X				5	3	1	3			Composite
10	16	~~BD26 (N,S,E)-0.5~~					X										Composite

Encircle Sample Matrix: Soil | Select Solid Matrix | Select Water Matrix | Select Wastewater Matrix | Select Aqueous Matrix | Enter Custom Matrix

Container — #: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister
Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NAZSO3

QA/QC: Routine | Caltrans | Legal | RWQCB | Level IV

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:
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   - 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.

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

John Gonzales — Submitter Print Name | Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1	John Gonzales	4/1/15	5:43	ATL	4/1/15	17:53
2		4/1/15	1850	FEDEX	4/1/15	1850
3						

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 9

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400	
		City: Los Angeles	State: CA	Zip: 90017	Fax:
SEND REPORT TO:			**SEND INVOICE TO:**		same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com		Attn:	Email:	
Company: TRC			Company:		
Address: 707 Wilshire Blvd. Ste 3250			Address:		
City: Los Angeles	State: CA	Zip: 90017	City:	State:	Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: John Gonzales
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Encircle or Write Requested Analysis: Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Encircle Sample Matrix: Soil	Solid Matrix	Water Matrix	Wastewater Matrix	Aqueous Matrix	Custom Matrix	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: Routine / Caltrans / Legal / RWQCB Level IV — REMARKS
1	1501179-33	BD3-S-0.5	4/1/15	11:45		X											2	1	1	3		
2	-34	BD3-S-1	↓	↓														1	1	3		Hold
3	-35	BD3-S-1.5																1	1	3		↓
4	-36	BD3-S-2																1	1	3		
5	-37	BD3-S-2.5																1	1	3		
6	-38	BD3-S-3																1	1	3		↓
7	-39	BD3 (N,S)-0.5					X										5	2	1	3		Compos
8	-40	BD4 (N,S,W,E)-0.5					X										5	4	1	3		Compos
9	-41	BD27 (N,W,E)-0.5					X										5	3	1	3		Compos
10																						

TERMS

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John Gonzales — Submitter Print Name

Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date: 4/1/15	Time: 5:43	Received by: (Signature and Printed Name)	Date: 4/1/15	Time: 1733
Relinquished by: (Signature and Printed Name)	Date: 4/1/15	Time: 1850	Received by: (Signature and Printed Name) FEDEX	Date: 4/2/15	Time: 1030
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

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CHAIN OF CUSTODY RECORD

Page 6 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: John Gonzales
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis ×4

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container #: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (AcO)2; 6=NaOH; 7=NaZnO3	REMARKS
1	1501179 -42	C4-S-0.5	4/1/15	1:10	2	1	3		
2	-43	C4-S-1				1	3		Hold
3	-44	C4-S-1.5				1	3		
4	-45	C4-S-2				1	3		
5	-46	C4-S-2.5				1	3		
6	-47	C4-S-3		↓		1	3		↓
7	-48	C4-N-0.5		1:45	2	1	3		
8	-49	BD15-Wb-0.5		1:57	2	1	3		
9	-50	BD15-Wb-1		↓		1	3		Hold
10	-51	BD15-Wb-1.5	↓	↓		1	3		Hold

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

TERMS

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John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	5:43		4/1/15	1753
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1850		4/1/15	1850
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715		
Method of Transport		Sample Conditions Upon Receipt				
		Condition	Y	N	Condition	Y	N
Client	ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx	OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO:	same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn:	Email:
Company: TRC		Company:	
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City: Los Angeles	State: CA Zip: 90017	City:	State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: John Gonzales
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	Routine / Caltrans / Legal / RWQCB / Level IV	REMARKS
1	1501179-52	BD1-W-2.5	4/1/15	9:01																										1	1	3			Hold
2	-53	BD1-W-3		9:01																										1	1	3			Hold
3	-54	BD1-N-0.5		9:34										X															5	1	1	3			
4	-55	BD1-N-1		9:34																										1	1	3			Hold
5	-56	BD1-N-1.5		9:34																										1	1	3			
6	-57	BD1-N-2		10:04																										1	1	3			
7	-58	BD1-N-2.5																												1	1	3			
8	-59	BD1-N-3																												1	1	3			
9	-60	BD2-N-0.5												X															5	1	1	3			
10	-61	BD2-N-1																												1	1	3			Hold

TERMS

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John Gonzales
Submitter Print Name

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CUSTODY

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	4/1/15	5:43		4/1/15	17:43
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1850	FEDEX	4/1/15	1750
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 8 of 9

Instruction: Complete all shaded areas.

For Laboratory Use Only			ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt	
		Condition Y N	Condition Y N
Client / FedEx / GSO / Other:	ATL / OnTrac	1. CHILLED	5. # OF SAMPLES MATCH COC
		2. HEADSPACE (V0A)	6. PRESERVED
		3. CONTAINER INTACT	7. COOLER TEMP, deg C:
		4. SEALED	

CUSTOMER

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PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
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Quote #:
PO #:
Special Instructions/Comments: BDIS for all samples

Encircle or Write Requested Analysis / Encircle Sample Matrix

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1	150179-62	BDIS Na-1	4/1/15	2:55																										1	1	3		Hold
2	-63	BDIS Na-1.5																												1	1	3		
3	-64	BDIS Na-2													X															1	1	3		
4	-65	BDIS Na-2.5																												1	1	3		
5	-66	BDIS Na-3																												1	1	3		
6	-67	BDIS Nb-0.5		3:25										X															5	1	1	3		
7	-68	BDIS Nb-1																												1	1	3		Hold
8	-69	BDIS Nb-1.5																												1	1	3		
9	-70	BDIS Nb-2																												1	1	3		
10	-71	BDIS Nb-2.5																												1	1	3		

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Submitter Print Name — Signature

CUSTODY

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	4/1/15	5:43		4/1/15	17:53
	4/1/15	1850	FEDEX	4/1/15	1850

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3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: John Gonzales
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1507179-72	BD25-W-0.5	4/1/15	8:15									X	X															5	1	1	3		
2	-73	BD25-W-1																												1	1	3		Hold
3	-74	BD25-W-1.5																												1	1	3		
4	-75	BD25-W-2																												1	1	3		
5	-76	BD25-W-2.5																												1	1	3		
6	-77	BD25-W-3																												1	1	3		
7	-78	BD1-W-0.5		9:01										X															5	1	1	3		
8	-79	BD1-W-1																												1	1	3		Hold
9	-80	BD1-W-1.5																												1	1	3		
10	-81	BD1-W-2																												1	1	3		

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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	5:43		4/1/15	1743
	4/1/15	1850	FEDEX	4/1/15	1850

29 April 2015

John C. Gonzales
TRC - LA
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

RE: ATL Work Order Number : 1501179
Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on April, 1 2015 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,

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

TRC - LA	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD15-Nb-0.5	1501179-67	Soil	4/01/15 15:25	4/01/15 17:53

Client Sample ID: BD15-Nb-0.5

Lab ID: 1501179-67

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
4,4´-DDE [2C]	**11**	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
4,4´-DDT [2C]	**33**	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Aldrin	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
alpha-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
alpha-Chlordane [2C]	**1.0**	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
beta-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Chlordane [2C]	**10**	8.5	1	B5D0785	04/27/2015	04/28/15 15:20	H4
delta-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Dieldrin	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Endosulfan I	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Endosulfan II	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Endosulfan sulfate	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Endrin	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Endrin aldehyde	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Endrin ketone	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
gamma-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
gamma-Chlordane	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Heptachlor	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Heptachlor epoxide	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Methoxychlor	ND	5.0	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Toxaphene	ND	50	1	B5D0785	04/27/2015	04/28/15 15:20	H4
Surrogate: Decachlorobiphenyl	*68.4 %*	*16 - 137*		B5D0785	04/27/2015	*04/28/15 15:20*	H4
Surrogate: Tetrachloro-m-xylene	*58.5 %*	*16 - 105*		B5D0785	04/27/2015	*04/28/15 15:20*	H4

Certificate of Analysis

TRC - LA	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

QUALITY CONTROL SECTION

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S									
Blank (B5D0785-BLK1)					Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				

Certificate of Analysis

TRC - LA	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5D0785-BLK1) - Continued					Prepared: 4/27/2015 Analyzed: 4/28/2015				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*12.52*		*16.6667*		*75.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.48*		*16.6667*		*74.9*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*11.73*		*16.6667*		*70.4*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.32*		*16.6667*		*73.9*	*16 - 105*			
LCS (B5D0785-BS1)					Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	12.2823	2.0	16.6667		73.7	58 - 100			
4,4´-DDD [2C]	13.2338	2.0	16.6667		79.4	58 - 100			
4,4´-DDE	13.2527	2.0	16.6667		79.5	65 - 99			
4,4´-DDE [2C]	14.5647	2.0	16.6667		87.4	65 - 99			
4,4´-DDT	12.9388	2.0	16.6667		77.6	39 - 116			
4,4´-DDT [2C]	13.3073	2.0	16.6667		79.8	39 - 116			
Aldrin	13.1247	1.0	16.6667		78.7	57 - 94			
Aldrin [2C]	14.2317	1.0	16.6667		85.4	57 - 94			
alpha-BHC	12.6392	1.0	16.6667		75.8	58 - 84			
alpha-BHC [2C]	13.4348	1.0	16.6667		80.6	58 - 84			
alpha-Chlordane	13.0558	1.0	16.6667		78.3	58 - 96			
alpha-Chlordane [2C]	14.3997	1.0	16.6667		86.4	58 - 96			
beta-BHC	12.3513	1.0	16.6667		74.1	58 - 87			
beta-BHC [2C]	12.9830	1.0	16.6667		77.9	58 - 87			
delta-BHC	10.9262	1.0	16.6667		65.6	18 - 75			
delta-BHC [2C]	11.8518	1.0	16.6667		71.1	18 - 75			
Dieldrin	12.8687	2.0	16.6667		77.2	62 - 94			
Dieldrin [2C]	13.6657	2.0	16.6667		82.0	62 - 94			
Endosulfan I	12.1718	1.0	16.6667		73.0	58 - 90			
Endosulfan I [2C]	13.2620	1.0	16.6667		79.6	58 - 90			
Endosulfan II	12.5407	2.0	16.6667		75.2	63 - 95			
Endosulfan II [2C]	13.3653	2.0	16.6667		80.2	63 - 95			
Endosulfan sulfate	15.4275	2.0	16.6667		92.6	59 - 89			L3
Endosulfan Sulfate [2C]	15.9425	2.0	16.6667		95.7	59 - 89			L3
Endrin	13.0420	2.0	16.6667		78.3	64 - 96			
Endrin [2C]	13.8798	2.0	16.6667		83.3	64 - 96			
Endrin aldehyde	12.3023	2.0	16.6667		73.8	65 - 95			
Endrin aldehyde [2C]	13.6278	2.0	16.6667		81.8	65 - 95			
Endrin ketone	13.2750	2.0	16.6667		79.6	59 - 101			
Endrin ketone [2C]	13.4763	2.0	16.6667		80.9	59 - 101			
gamma-BHC	12.9680	1.0	16.6667		77.8	63 - 89			
gamma-BHC [2C]	13.9165	1.0	16.6667		83.5	63 - 89			

Certificate of Analysis

TRC - LA	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5D0785-BS1) - Continued					Prepared: 4/27/2015 Analyzed: 4/28/2015				
gamma-Chlordane	13.0585	1.0	16.6667		78.4	61 - 95			
gamma-Chlordane [2C]	14.2087	1.0	16.6667		85.3	61 - 95			
Heptachlor	13.2650	1.0	16.6667		79.6	65 - 102			
Heptachlor [2C]	13.2973	1.0	16.6667		79.8	65 - 102			
Heptachlor epoxide	13.2182	1.0	16.6667		79.3	61 - 95			
Heptachlor epoxide [2C]	14.2075	1.0	16.6667		85.2	61 - 95			
Methoxychlor	13.4980	5.0	16.6667		81.0	29 - 128			
Methoxychlor [2C]	12.2043	5.0	16.6667		73.2	29 - 128			
Surrogate: Decachlorobiphenyl	*12.84*		*16.6667*		*77.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.47*		*16.6667*		*74.8*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*11.94*		*16.6667*		*71.6*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.80*		*16.6667*		*76.8*	*16 - 105*			
Matrix Spike (B5D0785-MS1)		**Source: 1501463-40**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	12.3015	2.0	16.6667	ND	73.8	27 - 123			
4,4´-DDD [2C]	14.2982	2.0	16.6667	ND	85.8	27 - 123			
4,4´-DDE	12.8308	2.0	16.6667	ND	77.0	28 - 126			
4,4´-DDE [2C]	15.0872	2.0	16.6667	ND	90.5	28 - 126			
4,4´-DDT	11.8477	2.0	16.6667	ND	71.1	12 - 149			
4,4´-DDT [2C]	13.6248	2.0	16.6667	ND	81.7	12 - 149			
Aldrin	13.2435	1.0	16.6667	ND	79.5	29 - 116			
Aldrin [2C]	14.7005	1.0	16.6667	ND	88.2	29 - 116			
alpha-BHC	13.1175	1.0	16.6667	ND	78.7	27 - 104			
alpha-BHC [2C]	14.1573	1.0	16.6667	ND	84.9	27 - 104			
alpha-Chlordane	12.7583	1.0	16.6667	0.173333	75.5	14 - 130			
alpha-Chlordane [2C]	15.2790	1.0	16.6667	0.130833	90.9	14 - 130			
beta-BHC	12.9128	1.0	16.6667	ND	77.5	20 - 115			
beta-BHC [2C]	13.8870	1.0	16.6667	ND	83.3	20 - 115			
delta-BHC	11.4157	1.0	16.6667	ND	68.5	8 - 78			
delta-BHC [2C]	12.6747	1.0	16.6667	ND	76.0	8 - 78			
Dieldrin	11.4808	2.0	16.6667	ND	68.9	20 - 134			
Dieldrin [2C]	13.8702	2.0	16.6667	ND	83.2	20 - 134			
Endosulfan I	11.7803	1.0	16.6667	ND	70.7	27 - 114			
Endosulfan I [2C]	13.2933	1.0	16.6667	ND	79.8	27 - 114			
Endosulfan II	12.3170	2.0	16.6667	ND	73.9	16 - 125			
Endosulfan II [2C]	13.3293	2.0	16.6667	ND	80.0	16 - 125			
Endosulfan sulfate	14.6545	2.0	16.6667	ND	87.9	1 - 126			
Endosulfan Sulfate [2C]	16.0720	2.0	16.6667	ND	96.4	1 - 126			
Endrin	12.6308	2.0	16.6667	ND	75.8	33 - 122			
Endrin [2C]	14.1998	2.0	16.6667	ND	85.2	33 - 122			
Endrin aldehyde	11.5298	2.0	16.6667	ND	69.2	0 - 137			
Endrin aldehyde [2C]	12.0632	2.0	16.6667	ND	72.4	0 - 137			

Certificate of Analysis

TRC - LA	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0785-MS1) - Continued		**Source: 1501463-40**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Endrin ketone	13.0913	2.0	16.6667	ND	78.5	10 - 126			
Endrin ketone [2C]	13.6632	2.0	16.6667	ND	82.0	10 - 126			
gamma-BHC	13.4277	1.0	16.6667	ND	80.6	30 - 111			
gamma-BHC [2C]	14.7343	1.0	16.6667	ND	88.4	30 - 111			
gamma-Chlordane	13.0943	1.0	16.6667	0.138500	77.7	16 - 130			
gamma-Chlordane [2C]	14.8677	1.0	16.6667	0.109833	88.5	16 - 130			
Heptachlor	13.6425	1.0	16.6667	ND	81.9	34 - 127			
Heptachlor [2C]	14.6262	1.0	16.6667	ND	87.8	34 - 127			
Heptachlor epoxide	13.0295	1.0	16.6667	ND	78.2	19 - 130			
Heptachlor epoxide [2C]	14.4678	1.0	16.6667	ND	86.8	19 - 130			
Methoxychlor	14.3327	5.0	16.6667	ND	86.0	16 - 153			
Methoxychlor [2C]	13.0162	5.0	16.6667	ND	78.1	16 - 153			
Surrogate: Decachlorobiphenyl	*12.56*		*16.6667*		*75.4*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.59*		*16.6667*		*69.6*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.33*		*16.6667*		*74.0*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.27*		*16.6667*		*79.6*	*16 - 105*			
Matrix Spike (B5D0785-MS3)		**Source: 1501179-67**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	11.2383	2.0	16.6667	ND	67.4	27 - 123			
4,4´-DDD [2C]	13.3465	2.0	16.6667	ND	80.1	27 - 123			
4,4´-DDE	17.3950	2.0	16.6667	10.0190	44.3	28 - 126			
4,4´-DDE [2C]	20.8622	2.0	16.6667	11.1780	58.1	28 - 126			
4,4´-DDT	25.6548	2.0	16.6667	28.9392	-19.7	12 - 149			M1
4,4´-DDT [2C]	30.1330	2.0	16.6667	32.5688	-14.6	12 - 149			M1
Aldrin	12.1322	1.0	16.6667	ND	72.8	29 - 116			
Aldrin [2C]	13.4845	1.0	16.6667	ND	80.9	29 - 116			
alpha-BHC	11.7792	1.0	16.6667	ND	70.7	27 - 104			
alpha-BHC [2C]	12.7712	1.0	16.6667	ND	76.6	27 - 104			
alpha-Chlordane	11.9620	1.0	16.6667	0.890500	66.4	14 - 130			
alpha-Chlordane [2C]	14.1520	1.0	16.6667	1.02900	78.7	14 - 130			
beta-BHC	11.1597	1.0	16.6667	ND	67.0	20 - 115			
beta-BHC [2C]	11.6195	1.0	16.6667	ND	69.7	20 - 115			
delta-BHC	9.84300	1.0	16.6667	ND	59.1	8 - 78			
delta-BHC [2C]	10.9333	1.0	16.6667	ND	65.6	8 - 78			
Dieldrin	11.1815	2.0	16.6667	0.987833	61.2	20 - 134			
Dieldrin [2C]	13.0962	2.0	16.6667	0.870500	73.4	20 - 134			
Endosulfan I	10.6968	1.0	16.6667	ND	64.2	27 - 114			
Endosulfan I [2C]	12.0838	1.0	16.6667	ND	72.5	27 - 114			
Endosulfan II	10.7423	2.0	16.6667	ND	64.5	16 - 125			
Endosulfan II [2C]	11.4173	2.0	16.6667	ND	68.5	16 - 125			
Endosulfan sulfate	11.5035	2.0	16.6667	ND	69.0	1 - 126			
Endosulfan Sulfate [2C]	11.8980	2.0	16.6667	ND	71.4	1 - 126			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0785-MS3) - Continued		**Source: 1501179-67**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Endrin	13.3450	2.0	16.6667	ND	80.1	33 - 122			
Endrin [2C]	13.0095	2.0	16.6667	ND	78.1	33 - 122			
Endrin aldehyde	8.57850	2.0	16.6667	ND	51.5	0 - 137			
Endrin aldehyde [2C]	9.35033	2.0	16.6667	ND	56.1	0 - 137			
Endrin ketone	10.8288	2.0	16.6667	ND	65.0	10 - 126			
Endrin ketone [2C]	11.3315	2.0	16.6667	ND	68.0	10 - 126			
gamma-BHC	12.4263	1.0	16.6667	ND	74.6	30 - 111			
gamma-BHC [2C]	13.1255	1.0	16.6667	ND	78.8	30 - 111			
gamma-Chlordane	11.6382	1.0	16.6667	0.936167	64.2	16 - 130			
gamma-Chlordane [2C]	13.3493	1.0	16.6667	0.909500	74.6	16 - 130			
Heptachlor	12.2368	1.0	16.6667	ND	73.4	34 - 127			
Heptachlor [2C]	13.5257	1.0	16.6667	ND	81.2	34 - 127			
Heptachlor epoxide	11.9550	1.0	16.6667	ND	71.7	19 - 130			
Heptachlor epoxide [2C]	13.1155	1.0	16.6667	ND	78.7	19 - 130			
Methoxychlor	14.9520	5.0	16.6667	ND	89.7	16 - 153			
Methoxychlor [2C]	11.7607	5.0	16.6667	ND	70.6	16 - 153			
Surrogate: Decachlorobiphenyl	*12.69*		*16.6667*		*76.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.52*		*16.6667*		*69.1*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.37*		*16.6667*		*62.2*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.53*		*16.6667*		*69.2*	*16 - 105*			
Matrix Spike (B5D0785-MS4)		**Source: 1501180-BP**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	12.7318	2.0	16.6667	ND	76.4	27 - 123			
4,4´-DDD [2C]	14.0043	2.0	16.6667	ND	84.0	27 - 123			
4,4´-DDE	24.9422	2.0	16.6667	8.05583	101	28 - 126			
4,4´-DDE [2C]	30.5413	2.0	16.6667	9.51617	126	28 - 126			
4,4´-DDT	20.2102	2.0	16.6667	4.78817	92.5	12 - 149			
4,4´-DDT [2C]	22.7177	2.0	16.6667	5.70117	102	12 - 149			
Aldrin	11.8945	1.0	16.6667	ND	71.4	29 - 116			
Aldrin [2C]	13.3762	1.0	16.6667	ND	80.3	29 - 116			
alpha-BHC	11.5487	1.0	16.6667	ND	69.3	27 - 104			
alpha-BHC [2C]	12.6155	1.0	16.6667	ND	75.7	27 - 104			
alpha-Chlordane	15.2537	1.0	16.6667	3.66000	69.6	14 - 130			
alpha-Chlordane [2C]	19.3965	1.0	16.6667	4.35450	90.3	14 - 130			
beta-BHC	10.8862	1.0	16.6667	ND	65.3	20 - 115			
beta-BHC [2C]	11.7798	1.0	16.6667	ND	70.7	20 - 115			
delta-BHC	9.73767	1.0	16.6667	ND	58.4	8 - 78			
delta-BHC [2C]	10.8370	1.0	16.6667	ND	65.0	8 - 78			
Dieldrin	20.4918	2.0	16.6667	9.50750	65.9	20 - 134			
Dieldrin [2C]	23.4397	2.0	16.6667	10.5568	77.3	20 - 134			
Endosulfan I	10.4445	1.0	16.6667	ND	62.7	27 - 114			
Endosulfan I [2C]	12.1140	1.0	16.6667	ND	72.7	27 - 114			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0785-MS4) - Continued		**Source: 1501180-BP**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Endosulfan II	10.4713	2.0	16.6667	ND	62.8	16 - 125			
Endosulfan II [2C]	11.6112	2.0	16.6667	ND	69.7	16 - 125			
Endosulfan sulfate	12.9373	2.0	16.6667	ND	77.6	1 - 126			
Endosulfan Sulfate [2C]	13.0798	2.0	16.6667	ND	78.5	1 - 126			
Endrin	12.6457	2.0	16.6667	ND	75.9	33 - 122			
Endrin [2C]	12.9050	2.0	16.6667	ND	77.4	33 - 122			
Endrin aldehyde	10.1618	2.0	16.6667	ND	61.0	0 - 137			
Endrin aldehyde [2C]	9.85450	2.0	16.6667	ND	59.1	0 - 137			
Endrin ketone	11.6093	2.0	16.6667	ND	69.7	10 - 126			
Endrin ketone [2C]	11.6932	2.0	16.6667	ND	70.2	10 - 126			
gamma-BHC	11.6820	1.0	16.6667	ND	70.1	30 - 111			
gamma-BHC [2C]	12.9700	1.0	16.6667	ND	77.8	30 - 111			
gamma-Chlordane	13.8865	1.0	16.6667	2.28817	69.6	16 - 130			
gamma-Chlordane [2C]	16.3422	1.0	16.6667	2.29333	84.3	16 - 130			
Heptachlor	12.1908	1.0	16.6667	0.146500	72.3	34 - 127			
Heptachlor [2C]	13.2882	1.0	16.6667	0.070167	79.3	34 - 127			
Heptachlor epoxide	11.7778	1.0	16.6667	0.269333	69.1	19 - 130			
Heptachlor epoxide [2C]	13.3905	1.0	16.6667	0.283167	78.6	19 - 130			
Methoxychlor	13.6398	5.0	16.6667	ND	81.8	16 - 153			
Methoxychlor [2C]	13.6440	5.0	16.6667	ND	81.9	16 - 153			
Surrogate: Decachlorobiphenyl	*12.46*		*16.6667*		*74.7*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.95*		*16.6667*		*71.7*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.52*		*16.6667*		*63.1*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.70*		*16.6667*		*70.2*	*16 - 105*			
Matrix Spike Dup (B5D0785-MSD1)		**Source: 1501463-40**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	11.9803	2.0	16.6667	ND	71.9	27 - 123	2.65	20	
4,4´-DDD [2C]	13.7943	2.0	16.6667	ND	82.8	27 - 123	3.59	20	
4,4´-DDE	12.4735	2.0	16.6667	ND	74.8	28 - 126	2.82	20	
4,4´-DDE [2C]	14.7193	2.0	16.6667	ND	88.3	28 - 126	2.47	20	
4,4´-DDT	11.6265	2.0	16.6667	ND	69.8	12 - 149	1.88	20	
4,4´-DDT [2C]	13.2652	2.0	16.6667	ND	79.6	12 - 149	2.68	20	
Aldrin	12.7687	1.0	16.6667	ND	76.6	29 - 116	3.65	20	
Aldrin [2C]	14.1353	1.0	16.6667	ND	84.8	29 - 116	3.92	20	
alpha-BHC	12.6562	1.0	16.6667	ND	75.9	27 - 104	3.58	20	
alpha-BHC [2C]	13.5635	1.0	16.6667	ND	81.4	27 - 104	4.28	20	
alpha-Chlordane	12.3945	1.0	16.6667	0.173333	73.3	14 - 130	2.89	20	
alpha-Chlordane [2C]	14.7933	1.0	16.6667	0.130833	88.0	14 - 130	3.23	20	
beta-BHC	12.3867	1.0	16.6667	ND	74.3	20 - 115	4.16	20	
beta-BHC [2C]	13.2578	1.0	16.6667	ND	79.5	20 - 115	4.64	20	
delta-BHC	10.9953	1.0	16.6667	ND	66.0	8 - 78	3.75	20	
delta-BHC [2C]	12.1232	1.0	16.6667	ND	72.7	8 - 78	4.45	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0785-MSD1) - Continued		**Source: 1501463-40**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Dieldrin	11.6370	2.0	16.6667	ND	69.8	20 - 134	1.35	20	
Dieldrin [2C]	13.4038	2.0	16.6667	ND	80.4	20 - 134	3.42	20	
Endosulfan I	11.4582	1.0	16.6667	ND	68.7	27 - 114	2.77	20	
Endosulfan I [2C]	12.9788	1.0	16.6667	ND	77.9	27 - 114	2.39	20	
Endosulfan II	11.9035	2.0	16.6667	ND	71.4	16 - 125	3.41	20	
Endosulfan II [2C]	13.0337	2.0	16.6667	ND	78.2	16 - 125	2.24	20	
Endosulfan sulfate	14.0938	2.0	16.6667	ND	84.6	1 - 126	3.90	20	
Endosulfan Sulfate [2C]	15.2952	2.0	16.6667	ND	91.8	1 - 126	4.95	20	
Endrin	12.3070	2.0	16.6667	ND	73.8	33 - 122	2.60	20	
Endrin [2C]	13.7460	2.0	16.6667	ND	82.5	33 - 122	3.25	20	
Endrin aldehyde	11.4223	2.0	16.6667	ND	68.5	0 - 137	0.937	20	
Endrin aldehyde [2C]	11.5452	2.0	16.6667	ND	69.3	0 - 137	4.39	20	
Endrin ketone	12.3333	2.0	16.6667	ND	74.0	10 - 126	5.96	20	
Endrin ketone [2C]	13.1395	2.0	16.6667	ND	78.8	10 - 126	3.91	20	
gamma-BHC	12.9010	1.0	16.6667	ND	77.4	30 - 111	4.00	20	
gamma-BHC [2C]	14.0928	1.0	16.6667	ND	84.6	30 - 111	4.45	20	
gamma-Chlordane	12.7095	1.0	16.6667	0.138500	75.4	16 - 130	2.98	20	
gamma-Chlordane [2C]	14.3493	1.0	16.6667	0.109833	85.4	16 - 130	3.55	20	
Heptachlor	13.1702	1.0	16.6667	ND	79.0	34 - 127	3.52	20	
Heptachlor [2C]	14.0037	1.0	16.6667	ND	84.0	34 - 127	4.35	20	
Heptachlor epoxide	12.5693	1.0	16.6667	ND	75.4	19 - 130	3.60	20	
Heptachlor epoxide [2C]	13.9740	1.0	16.6667	ND	83.8	19 - 130	3.47	20	
Methoxychlor	13.5307	5.0	16.6667	ND	81.2	16 - 153	5.76	20	
Methoxychlor [2C]	12.4428	5.0	16.6667	ND	74.7	16 - 153	4.50	20	
Surrogate: Decachlorobiphenyl	*11.78*		*16.6667*		*70.7*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.50*		*16.6667*		*69.0*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*11.63*		*16.6667*		*69.8*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.57*		*16.6667*		*75.4*	*16 - 105*			
Matrix Spike Dup (B5D0785-MSD3)		**Source: 1501179-67**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	12.0603	2.0	16.6667	ND	72.4	27 - 123	7.06	20	
4,4´-DDD [2C]	14.1845	2.0	16.6667	ND	85.1	27 - 123	6.09	20	
4,4´-DDE	18.2973	2.0	16.6667	10.0190	49.7	28 - 126	5.06	20	
4,4´-DDE [2C]	21.8210	2.0	16.6667	11.1780	63.9	28 - 126	4.49	20	
4,4´-DDT	27.9338	2.0	16.6667	28.9392	-6.03	12 - 149	8.51	20	M1
4,4´-DDT [2C]	31.7892	2.0	16.6667	32.5688	-4.68	12 - 149	5.35	20	M1
Aldrin	12.5920	1.0	16.6667	ND	75.6	29 - 116	3.72	20	
Aldrin [2C]	14.0547	1.0	16.6667	ND	84.3	29 - 116	4.14	20	
alpha-BHC	12.1600	1.0	16.6667	ND	73.0	27 - 104	3.18	20	
alpha-BHC [2C]	13.2687	1.0	16.6667	ND	79.6	27 - 104	3.82	20	
alpha-Chlordane	12.5332	1.0	16.6667	0.890500	69.9	14 - 130	4.66	20	
alpha-Chlordane [2C]	14.7697	1.0	16.6667	1.02900	82.4	14 - 130	4.27	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0785-MSD3) - Continued		**Source: 1501179-67**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
beta-BHC	11.6120	1.0	16.6667	ND	69.7	20 - 115	3.97	20	
beta-BHC [2C]	12.0953	1.0	16.6667	ND	72.6	20 - 115	4.01	20	
delta-BHC	10.3062	1.0	16.6667	ND	61.8	8 - 78	4.60	20	
delta-BHC [2C]	11.4560	1.0	16.6667	ND	68.7	8 - 78	4.67	20	
Dieldrin	12.5893	2.0	16.6667	0.987833	69.6	20 - 134	11.8	20	
Dieldrin [2C]	13.7097	2.0	16.6667	0.870500	77.0	20 - 134	4.58	20	
Endosulfan I	11.2105	1.0	16.6667	ND	67.3	27 - 114	4.69	20	
Endosulfan I [2C]	12.6768	1.0	16.6667	ND	76.1	27 - 114	4.79	20	
Endosulfan II	11.0972	2.0	16.6667	ND	66.6	16 - 125	3.25	20	
Endosulfan II [2C]	12.2677	2.0	16.6667	ND	73.6	16 - 125	7.18	20	
Endosulfan sulfate	13.0018	2.0	16.6667	ND	78.0	1 - 126	12.2	20	
Endosulfan Sulfate [2C]	13.0403	2.0	16.6667	ND	78.2	1 - 126	9.16	20	
Endrin	13.8832	2.0	16.6667	ND	83.3	33 - 122	3.95	20	
Endrin [2C]	13.7253	2.0	16.6667	ND	82.4	33 - 122	5.36	20	
Endrin aldehyde	8.86400	2.0	16.6667	ND	53.2	0 - 137	3.27	20	
Endrin aldehyde [2C]	10.0083	2.0	16.6667	ND	60.0	0 - 137	6.80	20	
Endrin ketone	11.5462	2.0	16.6667	ND	69.3	10 - 126	6.41	20	
Endrin ketone [2C]	12.0633	2.0	16.6667	ND	72.4	10 - 126	6.26	20	
gamma-BHC	12.9273	1.0	16.6667	ND	77.6	30 - 111	3.95	20	
gamma-BHC [2C]	13.6253	1.0	16.6667	ND	81.8	30 - 111	3.74	20	
gamma-Chlordane	12.2178	1.0	16.6667	0.936167	67.7	16 - 130	4.86	20	
gamma-Chlordane [2C]	13.9235	1.0	16.6667	0.909500	78.1	16 - 130	4.21	20	
Heptachlor	12.6402	1.0	16.6667	ND	75.8	34 - 127	3.24	20	
Heptachlor [2C]	14.0243	1.0	16.6667	ND	84.1	34 - 127	3.62	20	
Heptachlor epoxide	12.4480	1.0	16.6667	ND	74.7	19 - 130	4.04	20	
Heptachlor epoxide [2C]	13.7705	1.0	16.6667	ND	82.6	19 - 130	4.87	20	
Methoxychlor	13.6978	5.0	16.6667	ND	82.2	16 - 153	8.76	20	
Methoxychlor [2C]	12.5160	5.0	16.6667	ND	75.1	16 - 153	6.22	20	
Surrogate: Decachlorobiphenyl	*12.75*		*16.6667*		*76.5*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.35*		*16.6667*		*74.1*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.69*		*16.6667*		*64.2*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.93*		*16.6667*		*71.6*	*16 - 105*			
Matrix Spike Dup (B5D0785-MSD4)		**Source: 1501180-BP**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	11.9830	2.0	16.6667	ND	71.9	27 - 123	6.06	20	
4,4´-DDD [2C]	13.6338	2.0	16.6667	ND	81.8	27 - 123	2.68	20	
4,4´-DDE	24.2648	2.0	16.6667	8.05583	97.3	28 - 126	2.75	20	
4,4´-DDE [2C]	29.9042	2.0	16.6667	9.51617	122	28 - 126	2.11	20	
4,4´-DDT	18.8823	2.0	16.6667	4.78817	84.6	12 - 149	6.79	20	
4,4´-DDT [2C]	22.0042	2.0	16.6667	5.70117	97.8	12 - 149	3.19	20	
Aldrin	11.6412	1.0	16.6667	ND	69.8	29 - 116	2.15	20	
Aldrin [2C]	13.1120	1.0	16.6667	ND	78.7	29 - 116	1.99	20	

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0785-MSD4) - Continued		**Source: 1501180-BP**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
alpha-BHC	11.2703	1.0	16.6667	ND	67.6	27 - 104	2.44	20	
alpha-BHC [2C]	12.3335	1.0	16.6667	ND	74.0	27 - 104	2.26	20	
alpha-Chlordane	14.9268	1.0	16.6667	3.66000	67.6	14 - 130	2.17	20	
alpha-Chlordane [2C]	18.9997	1.0	16.6667	4.35450	87.9	14 - 130	2.07	20	
beta-BHC	10.6295	1.0	16.6667	ND	63.8	20 - 115	2.39	20	
beta-BHC [2C]	11.4610	1.0	16.6667	ND	68.8	20 - 115	2.74	20	
delta-BHC	9.43283	1.0	16.6667	ND	56.6	8 - 78	3.18	20	
delta-BHC [2C]	10.4817	1.0	16.6667	ND	62.9	8 - 78	3.33	20	
Dieldrin	19.0310	2.0	16.6667	9.50750	57.1	20 - 134	7.39	20	
Dieldrin [2C]	22.8187	2.0	16.6667	10.5568	73.6	20 - 134	2.68	20	
Endosulfan I	10.2283	1.0	16.6667	ND	61.4	27 - 114	2.09	20	
Endosulfan I [2C]	11.8848	1.0	16.6667	ND	71.3	27 - 114	1.91	20	
Endosulfan II	10.0465	2.0	16.6667	ND	60.3	16 - 125	4.14	20	
Endosulfan II [2C]	11.1318	2.0	16.6667	ND	66.8	16 - 125	4.22	20	
Endosulfan sulfate	12.0223	2.0	16.6667	ND	72.1	1 - 126	7.33	20	
Endosulfan Sulfate [2C]	11.8635	2.0	16.6667	ND	71.2	1 - 126	9.75	20	
Endrin	12.3547	2.0	16.6667	ND	74.1	33 - 122	2.33	20	
Endrin [2C]	12.5010	2.0	16.6667	ND	75.0	33 - 122	3.18	20	
Endrin aldehyde	9.19533	2.0	16.6667	ND	55.2	0 - 137	9.99	20	
Endrin aldehyde [2C]	8.86450	2.0	16.6667	ND	53.2	0 - 137	10.6	20	
Endrin ketone	10.3600	2.0	16.6667	ND	62.2	10 - 126	11.4	20	
Endrin ketone [2C]	11.2123	2.0	16.6667	ND	67.3	10 - 126	4.20	20	
gamma-BHC	11.4125	1.0	16.6667	ND	68.5	30 - 111	2.33	20	
gamma-BHC [2C]	12.6827	1.0	16.6667	ND	76.1	30 - 111	2.24	20	
gamma-Chlordane	13.5475	1.0	16.6667	2.28817	67.6	16 - 130	2.47	20	
gamma-Chlordane [2C]	16.0048	1.0	16.6667	2.29333	82.3	16 - 130	2.09	20	
Heptachlor	11.9660	1.0	16.6667	0.146500	70.9	34 - 127	1.86	20	
Heptachlor [2C]	13.0250	1.0	16.6667	0.070167	77.7	34 - 127	2.00	20	
Heptachlor epoxide	11.5618	1.0	16.6667	0.269333	67.8	19 - 130	1.85	20	
Heptachlor epoxide [2C]	13.0873	1.0	16.6667	0.283167	76.8	19 - 130	2.29	20	
Methoxychlor	12.7725	5.0	16.6667	ND	76.6	16 - 153	6.57	20	
Methoxychlor [2C]	12.7778	5.0	16.6667	ND	76.7	16 - 153	6.56	20	
Surrogate: Decachlorobiphenyl	*11.35*		*16.6667*		*68.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.28*		*16.6667*		*67.7*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.24*		*16.6667*		*61.5*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.34*		*16.6667*		*68.0*	*16 - 105*			

Certificate of Analysis

TRC - LA	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L3	Laboratory control sample outside in-house established limits but within method criteria.
H4	Change order analysis requested past the sample holding time.
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)
TX1	TX-NELAP (TCEQ)

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.

May 06, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

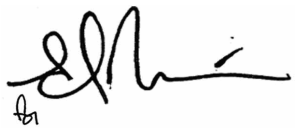
Re: ATL Work Order Number : 1501179

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on April 01, 2015 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,



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.

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/06/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Dup 8	1501179-82	Soil	4/01/15 0:00	4/01/15 17:53

CASE NARRATIVE

The sample for EPA 6020 analysis was subcontracted to AETL with DOHS Cert.#1541.

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

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Diane Galvan

Number of Pages 2
Date Received 04/29/2015
Date Reported 05/04/2015

Job Number	Order Date	Client
76750	04/29/2015	ATL

Project ID: 1501179
Project Name: PO# SC09545

Enclosed please find results of analyses of 1 soil sample which was analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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

Ordered By

Advanced Technology Laboratories **3275 Walnut Avenue** **Signal Hill, CA 90755-5225**	**Project ID: 1501179** **Date Received 04/29/2015** **Date Reported 05/04/2015**
Telephone: (562)989-4045 **Attention: Diane Galvan**	

Job Number	Order Date	Client
76750	04/29/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 1 samples with the following specification on 04/29/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76750.01	1501179-82	04/01/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	05/06/2015	2	Normal	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Diane Galvan
Page: **2**

Project ID: 1501179
Project Name: PO# SC09545

AETL Job Number	Submitted	Client
76750	04/29/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0430151C1

Our Lab I.D.			Method Blank	**76750.01**			
Client Sample I.D.				1501179-82			
Date Sampled				04/01/2015			
Date Prepared			04/30/2015	04/30/2015			
Preparation Method			3050B	3050B			
Date Analyzed			05/01/2015	05/01/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	2.19			

QUALITY CONTROL REPORT

QC Batch No: 0430151C1; Dup or Spiked Sample: 76747.04; LCS: Clean Sand; QC Prepared: 04/30/2015; QC Analyzed: 05/01/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.53	1.00	2.36	83.0	1.00	2.46	93.0	11.4	80-120	<15

QC Batch No: 0430151C1; Dup or Spiked Sample: 76747.04; LCS: Clean Sand; QC Prepared: 04/30/2015; QC Analyzed: 05/01/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.990	98.7	1.00	1.00	100	1.31	80-120	<15	

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

American Environmental Testing Laboratory Inc.
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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76750

SUBCONTRACT ORDER

Work Order: 1501179

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09545- STANDARD TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501179-82 / Dup 8		**Soil** 76750.01	**04/01/15 00:00**	**Report Arsenic only**
6020_SUB	**05/06/15 17:00**	09/28/15 00:00		
[Individual Metals by ICPMS]				
1-Glass Jar - 4 oz				

Released By	4/29/15 1356 Date	Sarbjit_P Received By	4/29/15 1356 Date
Sarbjit_P Released By	4/29/15 1800 Date	Jean Claude Received By	04/29/15 1800 Date

May 19, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

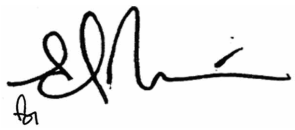
Re: ATL Work Order Number : 1501179

Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on April 01, 2015 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,



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

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/19/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DUP-11	1501179-84	Soil	4/01/15 11:15	4/01/15 17:53
DUP-12	1501179-85	Soil	4/01/15 8:15	4/01/15 17:53

CASE NARRATIVE

The sample for EPA 6020 analysis was subcontracted to AETL with DOHS Cert.#1541.

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/19/2015

Client Sample ID DUP-11

Lab ID: 1501179-84

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**8.1**	1.0	1	B5E0434	05/18/2015	05/19/15 11:04	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/19/2015

Client Sample ID DUP-12
Lab ID: 1501179-85

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**3.6**	1.0	1	B5E0434	05/18/2015	05/19/15 11:06	

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0434 - EPA 3050B_S									
Blank (B5E0434-BLK1)				Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	ND	1.0			NR				
LCS (B5E0434-BS1)				Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	49.4703	1.0	50.0000		98.9	80 - 120			
Duplicate (B5E0434-DUP1)		**Source: 1501145-89**		Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	6.18675	1.0		5.52688	NR		11.3	20	
Matrix Spike (B5E0434-MS1)		**Source: 1501145-89**		Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	100.398	1.0	125.000	5.52688	75.9	35 - 129			
Matrix Spike Dup (B5E0434-MSD1)		**Source: 1501145-89**		Prepared: 5/18/2015 Analyzed: 5/19/2015					
Lead	104.362	1.0	125.000	5.52688	79.1	35 - 129	3.87	20	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/19/2015

Notes and Definitions

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)
TX1	TX-NELAP (TCEQ)

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.

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

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages 3
Date Received 05/14/2015
Date Reported 05/19/2015

Job Number	Order Date	Client
76931	05/14/2015	ATL

Project ID: 1501179
Project Name: PO# SC09585

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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Ordered By

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755-5225

Project ID: 1501179 Date Received 05/14/2015 Date Reported 05/19/2015

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76931	05/14/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 2 samples with the following specification on 05/14/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76931.01	1501179-84	04/01/2015	Soil	1
76931.02	1501179-85	04/01/2015	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	05/21/2015	2	Normal	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501179
Project Name: PO# SC09585

AETL Job Number	Submitted	Client
76931	05/14/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0515151C1

Our Lab I.D.			Method Blank	76931.01			
Client Sample I.D.				1501179-84			
Date Sampled				04/01/2015			
Date Prepared			05/15/2015	05/15/2015			
Preparation Method			3050B	3050B			
Date Analyzed			05/18/2015	05/18/2015			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	2.38			

QUALITY CONTROL REPORT

QC Batch No: 0515151C1; Dup or Spiked Sample: 76931.01; LCS: Clean Sand; QC Prepared: 05/15/2015; QC Analyzed: 05/18/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.38	1.00	3.20	82.0	1.00	3.19	81.0	1.23	80-120	<15

QC Batch No: 0515151C1; Dup or Spiked Sample: 76931.01; LCS: Clean Sand; QC Prepared: 05/15/2015; QC Analyzed: 05/18/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	1.00	99.5	1.00	1.00	100	<1	80-120	<15	

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 3

Project ID: 1501179
Project Name: PO# SC09585

AETL Job Number	Submitted	Client
76931	05/14/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0515151C1

Our Lab I.D.			76931.02				
Client Sample I.D.			1501179-85				
Date Sampled			04/01/2015				
Date Prepared			05/15/2015				
Preparation Method			3050B				
Date Analyzed			05/18/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			5				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.25	0.50	3.64				

QUALITY CONTROL REPORT

QC Batch No: 0515151C1; Dup or Spiked Sample: 76931.01; LCS: Clean Sand; QC Prepared: 05/15/2015; QC Analyzed: 05/18/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.38	1.00	3.20	82.0	1.00	3.19	81.0	1.23	80-120	<15

QC Batch No: 0515151C1; Dup or Spiked Sample: 76931.01; LCS: Clean Sand; QC Prepared: 05/15/2015; QC Analyzed: 05/18/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	1.00	99.5	1.00	1.00	100	<1	80-120	<15	

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

Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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2834 & 2908 North Naomi Street, Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER 76931

Work Order: 1501179

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)

RECEIVING LABORATORY:

AETL
2834 North Naomi Street
Burbank, CA 91504
Phone :(818) 845-8200
Fax: (818) 845-8840
PO#: SC09585-STANDARD TAT (RA)

IMPORTANT : Please include Work **Order # and PO # in your invoice.**

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501179-84 / DUP-11 76931.01		**Soil**	**04/01/15 11:15**	**PLEASE REPORT ARSENIC. SAME SAMPLE AS 1501179-24**
6020_SUB [Individual Metals by ICPMS] **1-Glass Jar - 2 oz**	**05/21/15 17:00**	09/28/15 11:15		
ATL Lab#: 1501179-85 / DUP-12 76931.02		**Soil**	**04/01/15 08:15**	**SAME SAMPLE AS 1501179-72**
6020_SUB [Individual Metals by ICPMS] 1-Glass Jar - 2 oz	**05/21/15 17:00**	09/28/15 08:15		

Released By	Date	Received By	Date
[signature]	5/14/15	[signature]	05/14/15 1330
Released By	Date	Received By	Date

20 April 2015

John C. Gonzales
TRC - LA
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

RE: ATL Work Order Number : 1501180
Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on April, 1 2015 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,



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

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD2-S-0.5	1501180-01	Soil	3/31/15 14:18	4/01/15 17:55
BD26-E-0.5	1501180-07	Soil	3/31/15 14:05	4/01/15 17:55
BD26-S-0.5	1501180-13	Soil	3/31/15 13:55	4/01/15 17:55
BD26-(N,E,S)-0.5	1501180-19	Soil	3/31/15 0:00	4/01/15 17:55
BD25-N-0.5	1501180-20	Soil	3/31/15 14:30	4/01/15 17:55
BD25-S-0.5	1501180-26	Soil	3/31/15 9:30	4/01/15 17:55
Dup 6	1501180-32	Soil	3/31/15 0:00	4/01/15 17:55
EQ Blank	1501180-33	Water	3/31/15 15:18	4/01/15 17:55
BD23-W-0.5	1501180-34	Soil	3/31/15 13:45	4/01/15 17:55
BD2-E-0.5	1501180-40	Soil	4/01/15 8:11	4/01/15 17:55
BD1-E-0.5	1501180-46	Soil	4/01/15 9:00	4/01/15 17:55
BD26-N-0.5	1501180-52	Soil	4/01/15 9:15	4/01/15 17:55
BD2-W-0.5	1501180-58	Soil	4/01/15 9:30	4/01/15 17:55
A9-0.5	1501180-64	Soil	4/01/15 10:15	4/01/15 17:55
BD4-N-0.5	1501180-70	Soil	4/01/15 10:32	4/01/15 17:55
BD4-N-1	1501180-71	Soil	4/01/15 10:32	4/01/15 17:55
BD4-E-0.5	1501180-76	Soil	4/01/15 10:55	4/01/15 17:55
BD4-W-0.5	1501180-82	Soil	4/01/15 11:11	4/01/15 17:55
BD4-S-0.5	1501180-88	Soil	4/01/15 11:37	4/01/15 17:55
C9-0.5	1501180-94	Soil	4/01/15 11:50	4/01/15 17:55
C8-0.5	1501180-AA	Soil	4/01/15 13:05	4/01/15 17:55
D8-0.5	1501180-AG	Soil	4/01/15 13:15	4/01/15 17:55
BD27-N-0.5	1501180-AM	Soil	4/01/15 13:45	4/01/15 17:55
BD27-E-0.5	1501180-AS	Soil	4/01/15 14:00	4/01/15 17:55
E9-0.5	1501180-AY	Soil	4/01/15 14:30	4/01/15 17:55
D9-0.5	1501180-BE	Soil	4/01/15 14:09	4/01/15 17:55
Dup 7	1501180-BK	Soil	4/01/15 0:00	4/01/15 17:55
BD15-Eb-0.5	1501180-BL	Soil	4/01/15 15:15	4/01/15 17:55
BD15-Eb-1	1501180-BM	Soil	4/01/15 15:15	4/01/15 17:55
BD15-Ea-0.5	1501180-BP	Soil	4/01/15 15:30	4/01/15 17:55
PS1-0.5	1501180-BT	Soil	4/01/15 16:15	4/01/15 17:55
PS1-3	1501180-BY	Soil	4/01/15 16:15	4/01/15 17:55
PS1-6	1501180-BZ	Soil	4/01/15 16:15	4/01/15 17:55
PS1-9	1501180-CA	Soil	4/01/15 16:15	4/01/15 17:55

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
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PS1-12	1501180-CB	Soil	4/01/15 16:15	4/01/15 17:55
EQ Blank	1501180-CC	Water	4/01/15 17:56	4/01/15 17:55
DUP9	1501180-CD	Soil	4/01/15 16:15	4/01/15 17:55

CASE NARRATIVE

The samples for EPA 6020 analysis were subcontracted to AETL with DOHS Cert.#1541.

All volatile analyses were performed using 5035 preservation requirements. Any high level dilutions were performed on a preserved methanol sample unless otherwise noted.

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501180-01	BD2-S-0.5	**3.8**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 11:58	
1501180-13	BD26-S-0.5	**4.1**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:05	
1501180-20	BD25-N-0.5	**10**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:07	
1501180-26	BD25-S-0.5	**4.1**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:09	
1501180-34	BD23-W-0.5	**44**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:11	
1501180-40	BD2-E-0.5	**5.6**	mg/kg	1.0	1	B5D0235	04/08/2015	04/08/15 11:15	
1501180-46	BD1-E-0.5	**8.3**	mg/kg	1.0	1	B5D0235	04/08/2015	04/08/15 11:29	
1501180-52	BD26-N-0.5	**4.3**	mg/kg	1.0	1	B5D0235	04/08/2015	04/08/15 11:32	
1501180-58	BD2-W-0.5	**2.1**	mg/kg	1.0	1	B5D0235	04/08/2015	04/08/15 11:36	
1501180-70	BD4-N-0.5	**100**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:17	
1501180-71	BD4-N-1	**6.2**	mg/kg	1.0	1	B5D0487	04/16/2015	04/16/15 13:59	
1501180-76	BD4-E-0.5	**3.7**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:19	
1501180-82	BD4-W-0.5	**50**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:20	
1501180-88	BD4-S-0.5	**20**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:22	
1501180-AM	BD27-N-0.5	**2.7**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:24	
1501180-AS	BD27-E-0.5	**8.0**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:26	
1501180-BL	BD15-Eb-0.5	**850**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:28	
1501180-BM	BD15-Eb-1	**31**	mg/kg	1.0	1	B5D0487	04/16/2015	04/16/15 14:17	
1501180-BP	BD15-Ea-0.5	**58**	mg/kg	1.0	1	B5D0085	04/03/2015	04/03/15 12:30	

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: SB**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501180-33	EQ Blank	**ND**	mg/L	0.0050	1	B5D0223	04/08/2015	04/08/15 16:34	
1501180-CC	EQ Blank	**ND**	mg/L	0.0050	1	B5D0223	04/08/2015	04/08/15 16:48	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

TCLP Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501180-70	BD4-N-0.5	**0.068**	mg/L	0.050	1	B5D0534	04/17/2015	04/17/15 14:27	
1501180-BL	BD15-Eb-0.5	**0.86**	mg/L	0.050	1	B5D0534	04/17/2015	04/17/15 15:13	

STLC Metals by ICP-AES by EPA 6010B

Analyte: Lead **Analyst: RR**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501180-70	BD4-N-0.5	**6.2**	mg/L	1.0	20	B5D0509	04/16/2015	04/16/15 16:26	
1501180-BL	BD15-Eb-0.5	**91**	mg/L	1.0	20	B5D0509	04/16/2015	04/16/15 16:28	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Client Sample ID BD26-(N,E,S)-0.5
Lab ID: 1501180-19

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
4,4´-DDE	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
4,4´-DDT	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Aldrin	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
alpha-BHC	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
alpha-Chlordane	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
beta-BHC	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Chlordane	ND	8.5	1	B5D0080	04/02/2015	04/03/15 09:32	
delta-BHC	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Dieldrin	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Endosulfan I	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Endosulfan II	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Endosulfan sulfate	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Endrin	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Endrin aldehyde	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Endrin ketone	ND	2.0	1	B5D0080	04/02/2015	04/03/15 09:32	
gamma-BHC	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
gamma-Chlordane	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Heptachlor	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Heptachlor epoxide	ND	1.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Methoxychlor	ND	5.0	1	B5D0080	04/02/2015	04/03/15 09:32	
Toxaphene	ND	50	1	B5D0080	04/02/2015	04/03/15 09:32	
Surrogate: Decachlorobiphenyl	*72.0 %*	*16 - 137*		B5D0080	04/02/2015	*04/03/15 09:32*	
Surrogate: Tetrachloro-m-xylene	*66.1 %*	*16 - 105*		B5D0080	04/02/2015	*04/03/15 09:32*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Client Sample ID EQ Blank
Lab ID: 1501180-33

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
4,4´-DDE	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
4,4´-DDT	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
Aldrin	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
alpha-BHC	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
alpha-Chlordane	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
beta-BHC	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
Chlordane	ND	0.25	1	B5D0183	04/07/2015	04/07/15 14:29	
delta-BHC	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
Dieldrin	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
Endosulfan I	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
Endosulfan II	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
Endosulfan sulfate	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
Endrin	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
Endrin aldehyde	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
Endrin ketone	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:29	
gamma-BHC	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
gamma-Chlordane	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
Heptachlor	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
Heptachlor epoxide	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:29	
Methoxychlor	ND	0.25	1	B5D0183	04/07/2015	04/07/15 14:29	
Toxaphene	ND	2.5	1	B5D0183	04/07/2015	04/07/15 14:29	
Surrogate: Decachlorobiphenyl	*69.9 %*	*20 - 138*		B5D0183	04/07/2015	*04/07/15 14:29*	
Surrogate: Tetrachloro-m-xylene	*80.8 %*	*11 - 133*		B5D0183	04/07/2015	*04/07/15 14:29*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Client Sample ID PS1-3
Lab ID: 1501180-BY

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,1,1-Trichloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,1,2,2-Tetrachloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,1,2-Trichloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,1-Dichloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,1-Dichloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,1-Dichloropropene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2,3-Trichloropropane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2,3-Trichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2,4-Trichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2,4-Trimethylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2-Dibromo-3-chloropropane	ND	10	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2-Dibromoethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2-Dichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2-Dichloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,2-Dichloropropane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,3,5-Trimethylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,3-Dichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,3-Dichloropropane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
1,4-Dichlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
2,2-Dichloropropane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
2-Chlorotoluene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
4-Chlorotoluene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
4-Isopropyltoluene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Benzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Bromobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Bromochloromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Bromodichloromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Bromoform	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Bromomethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Carbon disulfide	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Carbon tetrachloride	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Chlorobenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Chloroethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Chloroform	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Chloromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
cis-1,2-Dichloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
cis-1,3-Dichloropropene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Di-isopropyl ether	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Dibromochloromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Dibromomethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Client Sample ID PS1-3
Lab ID: 1501180-BY

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dichlorodifluoromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Ethyl Acetate	ND	50	1	B5D0037	04/02/2015	04/02/15 12:28	
Ethyl Ether	ND	50	1	B5D0037	04/02/2015	04/02/15 12:28	
Ethyl tert-butyl ether	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Ethylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Freon-113	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Hexachlorobutadiene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Isopropylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
m,p-Xylene	ND	10	1	B5D0037	04/02/2015	04/02/15 12:28	
Methylene chloride	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
MTBE	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
n-Butylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
n-Propylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Naphthalene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
o-Xylene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
sec-Butylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Styrene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
tert-Amyl methyl ether	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
tert-Butanol	ND	100	1	B5D0037	04/02/2015	04/02/15 12:28	
tert-Butylbenzene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Tetrachloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Toluene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
trans-1,2-Dichloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
trans-1,3-Dichloropropene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Trichloroethene	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Trichlorofluoromethane	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Vinyl acetate	ND	50	1	B5D0037	04/02/2015	04/02/15 12:28	
Vinyl chloride	ND	5.0	1	B5D0037	04/02/2015	04/02/15 12:28	
Surrogate: 1,2-Dichloroethane-d4	*101 %*	*20 - 189*		B5D0037	04/02/2015	*04/02/15 12:28*	
Surrogate: 4-Bromofluorobenzene	*95.1 %*	*20 - 173*		B5D0037	04/02/2015	*04/02/15 12:28*	
Surrogate: Dibromofluoromethane	*98.7 %*	*26 - 178*		B5D0037	04/02/2015	*04/02/15 12:28*	
Surrogate: Toluene-d8	*97.3 %*	*31 - 166*		B5D0037	04/02/2015	*04/02/15 12:28*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Client Sample ID EQ Blank
Lab ID: 1501180-CC

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/L)	PQL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
4,4´-DDE	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
4,4´-DDT	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
Aldrin	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
alpha-BHC	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
alpha-Chlordane	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
beta-BHC	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
Chlordane	ND	0.25	1	B5D0183	04/07/2015	04/07/15 14:40	
delta-BHC	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
Dieldrin	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
Endosulfan I	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
Endosulfan II	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
Endosulfan sulfate	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
Endrin	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
Endrin aldehyde	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
Endrin ketone	ND	0.05	1	B5D0183	04/07/2015	04/07/15 14:40	
gamma-BHC	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
gamma-Chlordane	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
Heptachlor	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
Heptachlor epoxide	ND	0.02	1	B5D0183	04/07/2015	04/07/15 14:40	
Methoxychlor	ND	0.25	1	B5D0183	04/07/2015	04/07/15 14:40	
Toxaphene	ND	2.5	1	B5D0183	04/07/2015	04/07/15 14:40	
Surrogate: Decachlorobiphenyl	*76.1 %*	*20 - 138*		B5D0183	04/07/2015	*04/07/15 14:40*	
Surrogate: Tetrachloro-m-xylene	*88.3 %*	*11 - 133*		B5D0183	04/07/2015	*04/07/15 14:40*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Client Sample ID DUP9
Lab ID: 1501180-CD

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,1,1-Trichloroethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,1,2,2-Tetrachloroethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,1,2-Trichloroethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,1-Dichloroethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,1-Dichloroethene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,1-Dichloropropene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2,3-Trichloropropane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2,3-Trichlorobenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2,4-Trichlorobenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2,4-Trimethylbenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2-Dibromo-3-chloropropane	ND	11	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2-Dibromoethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2-Dichlorobenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2-Dichloroethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,2-Dichloropropane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,3,5-Trimethylbenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,3-Dichlorobenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,3-Dichloropropane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
1,4-Dichlorobenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
2,2-Dichloropropane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
2-Chlorotoluene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
4-Chlorotoluene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
4-Isopropyltoluene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Benzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Bromobenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Bromochloromethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Bromodichloromethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Bromoform	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Bromomethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Carbon disulfide	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Carbon tetrachloride	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Chlorobenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Chloroethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Chloroform	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Chloromethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
cis-1,2-Dichloroethene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
cis-1,3-Dichloropropene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Di-isopropyl ether	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Dibromochloromethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Dibromomethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Client Sample ID DUP9
Lab ID: 1501180-CD

Volatile Organic Compounds by EPA 5035/EPA 8260B **Analyst: AG**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Dichlorodifluoromethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Ethyl Acetate	ND	53	1	B5D0451	04/03/2015	04/15/15 12:53	
Ethyl Ether	ND	53	1	B5D0451	04/03/2015	04/15/15 12:53	
Ethyl tert-butyl ether	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Ethylbenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Freon-113	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Hexachlorobutadiene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Isopropylbenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
m,p-Xylene	ND	11	1	B5D0451	04/03/2015	04/15/15 12:53	
Methylene chloride	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
MTBE	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
n-Butylbenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
n-Propylbenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Naphthalene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
o-Xylene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
sec-Butylbenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Styrene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
tert-Amyl methyl ether	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
tert-Butanol	ND	110	1	B5D0451	04/03/2015	04/15/15 12:53	
tert-Butylbenzene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Tetrachloroethene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Toluene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
trans-1,2-Dichloroethene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
trans-1,3-Dichloropropene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Trichloroethene	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Trichlorofluoromethane	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Vinyl acetate	ND	53	1	B5D0451	04/03/2015	04/15/15 12:53	
Vinyl chloride	ND	5.3	1	B5D0451	04/03/2015	04/15/15 12:53	
Surrogate: 1,2-Dichloroethane-d4	*121 %*	*20 - 189*		B5D0451	04/03/2015	*04/15/15 12:53*	
Surrogate: 4-Bromofluorobenzene	*92.3 %*	*20 - 173*		B5D0451	04/03/2015	*04/15/15 12:53*	
Surrogate: Dibromofluoromethane	*106 %*	*26 - 178*		B5D0451	04/03/2015	*04/15/15 12:53*	
Surrogate: Toluene-d8	*101 %*	*31 - 166*		B5D0451	04/03/2015	*04/15/15 12:53*	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0085 - EPA 3050B_S									
Blank (B5D0085-BLK1)					Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	ND	1.0			NR				
LCS (B5D0085-BS1)					Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	46.6740	1.0	50.0000		93.3	80 - 120			
Duplicate (B5D0085-DUP1)		**Source: 1501180-01**			Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	3.56707	1.0		3.79607	NR		6.22	20	
Matrix Spike (B5D0085-MS1)		**Source: 1501180-01**			Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	97.1146	1.0	125.000	3.79607	74.7	35 - 129			
Matrix Spike Dup (B5D0085-MSD1)		**Source: 1501180-01**			Prepared: 4/3/2015 Analyzed: 4/3/2015				
Lead	103.105	1.0	125.000	3.79607	79.4	35 - 129	5.98	20	
Batch B5D0223 - EPA 3010A_W									
Blank (B5D0223-BLK1)					Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	ND	0.0050			NR				
LCS (B5D0223-BS1)					Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	1.01441	0.0050	1.00000		101	80 - 120			
Duplicate (B5D0223-DUP1)		**Source: 1501180-33**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	ND	0.0050		ND	NR			20	
Duplicate (B5D0223-DUP2)		**Source: 1501180-33**			Prepared: 4/8/2015 Analyzed: 4/9/2015				
Lead	ND	0.010		ND	NR			20	
Matrix Spike (B5D0223-MS1)		**Source: 1501180-33**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	2.47965	0.0050	2.50000	ND	99.2	85 - 114			
Matrix Spike Dup (B5D0223-MSD1)		**Source: 1501180-33**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	2.80454	0.0050	2.50000	ND	112	85 - 114	12.3	20	
Batch B5D0235 - EPA 3050B_S									
Blank (B5D0235-BLK1)					Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	ND	1.0			NR				
LCS (B5D0235-BS1)					Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	48.8854	1.0	50.0000		97.8	80 - 120			
Duplicate (B5D0235-DUP1)		**Source: 1501180-40**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	6.44065	1.0		5.63516	NR		13.3	20	
Matrix Spike (B5D0235-MS1)		**Source: 1501180-40**			Prepared: 4/8/2015 Analyzed: 4/8/2015				

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Total Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0235 - EPA 3050B_S (continued)									
Matrix Spike (B5D0235-MS1) - Continued		**Source: 1501180-40**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	100.381	1.0	125.000	5.63516	75.8	35 - 129			
Matrix Spike Dup (B5D0235-MSD1)		**Source: 1501180-40**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	100.513	1.0	125.000	5.63516	75.9	35 - 129	0.131	20	
Batch B5D0487 - EPA 3050B_S									
Blank (B5D0487-BLK1)					Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	ND	1.0			NR				
LCS (B5D0487-BS1)					Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	47.8507	1.0	50.0000		95.7	80 - 120			
Duplicate (B5D0487-DUP1)		**Source: 1501180-71**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	6.47310	1.0		6.21176	NR		4.12	20	
Matrix Spike (B5D0487-MS1)		**Source: 1501180-71**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	90.0155	1.0	125.000	6.21176	67.0	35 - 129			
Matrix Spike Dup (B5D0487-MSD1)		**Source: 1501180-71**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	91.5016	1.0	125.000	6.21176	68.2	35 - 129	1.64	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0534 - EPA 3010A_S									
Blank (B5D0534-BLK1)					Prepared: 4/17/2015 Analyzed: 4/17/2015				
Lead	ND	0.050			NR				
Blank (B5D0534-BLK2)					Prepared: 4/17/2015 Analyzed: 4/17/2015				
Lead	ND	0.050			NR				
LCS (B5D0534-BS1)					Prepared: 4/17/2015 Analyzed: 4/17/2015				
Lead	0.927874	0.050	1.00000		92.8	80 - 120			
Duplicate (B5D0534-DUP1)		**Source: 1501170-07**			Prepared: 4/17/2015 Analyzed: 4/17/2015				
Lead	0.449117	0.050		0.457978	NR		1.95	20	
Duplicate (B5D0534-DUP2)		**Source: 1501180-70**			Prepared: 4/17/2015 Analyzed: 4/17/2015				
Lead	0.059962	0.050		0.067545	NR		11.9	20	
Matrix Spike (B5D0534-MS1)		**Source: 1501170-07**			Prepared: 4/17/2015 Analyzed: 4/17/2015				
Lead	2.63478	0.050	2.50000	0.457978	87.1	77 - 121			
Matrix Spike (B5D0534-MS2)		**Source: 1501180-70**			Prepared: 4/17/2015 Analyzed: 4/17/2015				
Lead	2.32920	0.050	2.50000	0.067545	90.5	77 - 121			
Matrix Spike Dup (B5D0534-MSD1)		**Source: 1501170-07**			Prepared: 4/17/2015 Analyzed: 4/17/2015				
Lead	2.72171	0.050	2.50000	0.457978	90.5	77 - 121	3.25	20	

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0509 - STLC_S Extraction									
Blank (B5D0509-BLK1)					Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	ND	1.0			NR				
LCS (B5D0509-BS1)					Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	1.92010		2.00000		96.0	80 - 120			
Duplicate (B5D0509-DUP1)		**Source: 1501218-15**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	9.91477	1.0		6.78559	NR		37.5	20	R
Matrix Spike (B5D0509-MS1)		**Source: 1501218-15**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	8.87233		2.50000	6.78559	83.5	44 - 130			
Matrix Spike Dup (B5D0509-MSD1)		**Source: 1501218-15**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	8.58707		2.50000	6.78559	72.1	44 - 130	3.27	20	

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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0080 - GCSEMI_PCB/PEST_S									
Blank (B5D0080-BLK1)					Prepared: 4/2/2015 Analyzed: 4/3/2015				
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*12.85*		*16.6667*		*77.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*13.15*		*16.6667*		*78.9*	*16 - 137*			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0080 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5D0080-BLK1) - Continued					Prepared: 4/2/2015 Analyzed: 4/3/2015				
Surrogate: Tetrachloro-m-xylene	*12.51*		*16.6667*		*75.0*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.99*		*16.6667*		*77.9*	*16 - 105*			
LCS (B5D0080-BS1)					Prepared: 4/2/2015 Analyzed: 4/3/2015				
4,4´-DDD	12.6613	2.0	16.6667		76.0	58 - 100			
4,4´-DDD [2C]	13.4327	2.0	16.6667		80.6	58 - 100			
4,4´-DDE	13.7400	2.0	16.6667		82.4	65 - 99			
4,4´-DDE [2C]	14.6070	2.0	16.6667		87.6	65 - 99			
4,4´-DDT	13.0370	2.0	16.6667		78.2	39 - 116			
4,4´-DDT [2C]	13.7083	2.0	16.6667		82.2	39 - 116			
Aldrin	13.4598	1.0	16.6667		80.8	57 - 94			
Aldrin [2C]	14.2053	1.0	16.6667		85.2	57 - 94			
alpha-BHC	12.8415	1.0	16.6667		77.0	58 - 84			
alpha-BHC [2C]	13.5017	1.0	16.6667		81.0	58 - 84			
alpha-Chlordane	13.4613	1.0	16.6667		80.8	58 - 96			
alpha-Chlordane [2C]	14.2452	1.0	16.6667		85.5	58 - 96			
beta-BHC	12.4217	1.0	16.6667		74.5	58 - 87			
beta-BHC [2C]	12.8217	1.0	16.6667		76.9	58 - 87			
delta-BHC	13.3298	1.0	16.6667		80.0	18 - 75			L3
delta-BHC [2C]	14.2510	1.0	16.6667		85.5	18 - 75			L3
Dieldrin	13.1790	2.0	16.6667		79.1	62 - 94			
Dieldrin [2C]	13.4842	2.0	16.6667		80.9	62 - 94			
Endosulfan I	12.4823	1.0	16.6667		74.9	58 - 90			
Endosulfan I [2C]	13.0648	1.0	16.6667		78.4	58 - 90			
Endosulfan II	12.7423	2.0	16.6667		76.5	63 - 95			
Endosulfan II [2C]	13.0878	2.0	16.6667		78.5	63 - 95			
Endosulfan sulfate	14.8878	2.0	16.6667		89.3	59 - 89			L3
Endosulfan Sulfate [2C]	15.4093	2.0	16.6667		92.5	59 - 89			L3
Endrin	13.5115	2.0	16.6667		81.1	64 - 96			
Endrin [2C]	13.9398	2.0	16.6667		83.6	64 - 96			
Endrin aldehyde	12.2818	2.0	16.6667		73.7	65 - 95			
Endrin aldehyde [2C]	13.4092	2.0	16.6667		80.5	65 - 95			
Endrin ketone	11.8593	2.0	16.6667		71.2	59 - 101			
Endrin ketone [2C]	12.1137	2.0	16.6667		72.7	59 - 101			
gamma-BHC	13.2033	1.0	16.6667		79.2	63 - 89			
gamma-BHC [2C]	13.9195	1.0	16.6667		83.5	63 - 89			
gamma-Chlordane	13.4742	1.0	16.6667		80.8	61 - 95			
gamma-Chlordane [2C]	14.1030	1.0	16.6667		84.6	61 - 95			
Heptachlor	13.7043	1.0	16.6667		82.2	65 - 102			
Heptachlor [2C]	14.1843	1.0	16.6667		85.1	65 - 102			
Heptachlor epoxide	13.4988	1.0	16.6667		81.0	61 - 95			
Heptachlor epoxide [2C]	14.0157	1.0	16.6667		84.1	61 - 95			
Methoxychlor	13.0050	5.0	16.6667		78.0	29 - 128			
Methoxychlor [2C]	12.7803	5.0	16.6667		76.7	29 - 128			
Surrogate: Decachlorobiphenyl	*12.17*		*16.6667*		*73.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.02*		*16.6667*		*72.1*	*16 - 137*			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0080 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5D0080-BS1) - Continued					Prepared: 4/2/2015 Analyzed: 4/3/2015				
Surrogate: Tetrachloro-m-xylene	*11.96*		*16.6667*		*71.8*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.49*		*16.6667*		*74.9*	*16 - 105*			
Matrix Spike (B5D0080-MS1)		**Source: 1501180-19**			Prepared: 4/2/2015 Analyzed: 4/3/2015				
4,4´-DDD	12.8010	2.0	16.6667	ND	76.8	27 - 123			
4,4´-DDD [2C]	13.6957	2.0	16.6667	ND	82.2	27 - 123			
4,4´-DDE	14.2297	2.0	16.6667	ND	85.4	28 - 126			
4,4´-DDE [2C]	15.2533	2.0	16.6667	ND	91.5	28 - 126			
4,4´-DDT	13.5743	2.0	16.6667	ND	81.4	12 - 149			
4,4´-DDT [2C]	14.2908	2.0	16.6667	ND	85.7	12 - 149			
Aldrin	13.5203	1.0	16.6667	ND	81.1	29 - 116			
Aldrin [2C]	14.2987	1.0	16.6667	ND	85.8	29 - 116			
alpha-BHC	12.6462	1.0	16.6667	ND	75.9	27 - 104			
alpha-BHC [2C]	13.3057	1.0	16.6667	ND	79.8	27 - 104			
alpha-Chlordane	13.6845	1.0	16.6667	ND	82.1	14 - 130			
alpha-Chlordane [2C]	14.5063	1.0	16.6667	ND	87.0	14 - 130			
beta-BHC	12.1573	1.0	16.6667	ND	72.9	20 - 115			
beta-BHC [2C]	12.5820	1.0	16.6667	ND	75.5	20 - 115			
delta-BHC	12.3908	1.0	16.6667	ND	74.3	8 - 78			
delta-BHC [2C]	13.0960	1.0	16.6667	ND	78.6	8 - 78			M7
Dieldrin	13.0828	2.0	16.6667	ND	78.5	20 - 134			
Dieldrin [2C]	13.4302	2.0	16.6667	ND	80.6	20 - 134			
Endosulfan I	12.6133	1.0	16.6667	ND	75.7	27 - 114			
Endosulfan I [2C]	13.2153	1.0	16.6667	ND	79.3	27 - 114			
Endosulfan II	11.1912	2.0	16.6667	ND	67.1	16 - 125			
Endosulfan II [2C]	11.5518	2.0	16.6667	ND	69.3	16 - 125			
Endosulfan sulfate	10.6870	2.0	16.6667	ND	64.1	1 - 126			
Endosulfan Sulfate [2C]	11.0907	2.0	16.6667	ND	66.5	1 - 126			
Endrin	13.6457	2.0	16.6667	ND	81.9	33 - 122			
Endrin [2C]	14.0880	2.0	16.6667	ND	84.5	33 - 122			
Endrin aldehyde	8.79433	2.0	16.6667	ND	52.8	0 - 137			
Endrin aldehyde [2C]	8.92567	2.0	16.6667	ND	53.6	0 - 137			
Endrin ketone	9.02067	2.0	16.6667	ND	54.1	10 - 126			
Endrin ketone [2C]	9.52133	2.0	16.6667	ND	57.1	10 - 126			
gamma-BHC	12.6835	1.0	16.6667	ND	76.1	30 - 111			
gamma-BHC [2C]	13.4863	1.0	16.6667	ND	80.9	30 - 111			
gamma-Chlordane	13.4513	1.0	16.6667	ND	80.7	16 - 130			
gamma-Chlordane [2C]	14.3015	1.0	16.6667	ND	85.8	16 - 130			
Heptachlor	13.9540	1.0	16.6667	ND	83.7	34 - 127			
Heptachlor [2C]	14.5203	1.0	16.6667	ND	87.1	34 - 127			
Heptachlor epoxide	13.5218	1.0	16.6667	ND	81.1	19 - 130			
Heptachlor epoxide [2C]	14.0348	1.0	16.6667	ND	84.2	19 - 130			
Methoxychlor	12.0803	5.0	16.6667	ND	72.5	16 - 153			
Methoxychlor [2C]	12.2090	5.0	16.6667	ND	73.3	16 - 153			
Surrogate: Decachlorobiphenyl	*12.22*		*16.6667*		*73.3*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.35*		*16.6667*		*74.1*	*16 - 137*			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0080 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0080-MS1) - Continued		**Source: 1501180-19**			Prepared: 4/2/2015 Analyzed: 4/3/2015				
Surrogate: Tetrachloro-m-xylene	*11.62*		*16.6667*		*69.7*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.22*		*16.6667*		*73.3*	*16 - 105*			
Matrix Spike (B5D0080-MS2)		**Source: 1501140-04**			Prepared: 4/2/2015 Analyzed: 4/3/2015				
4,4´-DDD	11.3017	2.0	16.6667	ND	67.8	27 - 123			
4,4´-DDD [2C]	13.0030	2.0	16.6667	ND	78.0	27 - 123			
4,4´-DDE	39.3042	2.0	16.6667	14.6255	148	28 - 126			M1
4,4´-DDE [2C]	44.8030	2.0	16.6667	17.0910	166	28 - 126			M1
4,4´-DDT	17.0300	2.0	16.6667	1.58883	92.6	12 - 149			
4,4´-DDT [2C]	18.7330	2.0	16.6667	2.17383	99.4	12 - 149			
Aldrin	12.3167	1.0	16.6667	ND	73.9	29 - 116			
Aldrin [2C]	13.0648	1.0	16.6667	ND	78.4	29 - 116			
alpha-BHC	11.4530	1.0	16.6667	ND	68.7	27 - 104			
alpha-BHC [2C]	12.1553	1.0	16.6667	ND	72.9	27 - 104			
alpha-Chlordane	12.6420	1.0	16.6667	ND	75.9	14 - 130			
alpha-Chlordane [2C]	13.8750	1.0	16.6667	ND	83.2	14 - 130			
beta-BHC	11.1162	1.0	16.6667	ND	66.7	20 - 115			
beta-BHC [2C]	11.5308	1.0	16.6667	ND	69.2	20 - 115			
delta-BHC	11.8825	1.0	16.6667	ND	71.3	8 - 78			
delta-BHC [2C]	12.6425	1.0	16.6667	ND	75.9	8 - 78			
Dieldrin	12.3375	2.0	16.6667	0.234667	72.6	20 - 134			
Dieldrin [2C]	12.6900	2.0	16.6667	0.193000	75.0	20 - 134			
Endosulfan I	11.4735	1.0	16.6667	ND	68.8	27 - 114			
Endosulfan I [2C]	12.3400	1.0	16.6667	ND	74.0	27 - 114			
Endosulfan II	10.9622	2.0	16.6667	ND	65.8	16 - 125			
Endosulfan II [2C]	11.5312	2.0	16.6667	ND	69.2	16 - 125			
Endosulfan sulfate	11.4967	2.0	16.6667	ND	69.0	1 - 126			
Endosulfan Sulfate [2C]	11.9562	2.0	16.6667	ND	71.7	1 - 126			
Endrin	13.5517	2.0	16.6667	ND	81.3	33 - 122			
Endrin [2C]	13.2707	2.0	16.6667	ND	79.6	33 - 122			
Endrin aldehyde	9.51700	2.0	16.6667	ND	57.1	0 - 137			
Endrin aldehyde [2C]	9.70300	2.0	16.6667	ND	58.2	0 - 137			
Endrin ketone	11.0910	2.0	16.6667	ND	66.5	10 - 126			
Endrin ketone [2C]	11.2388	2.0	16.6667	ND	67.4	10 - 126			
gamma-BHC	11.5828	1.0	16.6667	ND	69.5	30 - 111			
gamma-BHC [2C]	12.4508	1.0	16.6667	ND	74.7	30 - 111			
gamma-Chlordane	12.5138	1.0	16.6667	ND	75.1	16 - 130			
gamma-Chlordane [2C]	13.2953	1.0	16.6667	ND	79.8	16 - 130			
Heptachlor	12.5790	1.0	16.6667	ND	75.5	34 - 127			
Heptachlor [2C]	13.2577	1.0	16.6667	ND	79.5	34 - 127			
Heptachlor epoxide	12.4245	1.0	16.6667	ND	74.5	19 - 130			
Heptachlor epoxide [2C]	13.1335	1.0	16.6667	ND	78.8	19 - 130			
Methoxychlor	12.0108	5.0	16.6667	ND	72.1	16 - 153			
Methoxychlor [2C]	12.8910	5.0	16.6667	ND	77.3	16 - 153			
Surrogate: Decachlorobiphenyl	*11.14*		*16.6667*		*66.9*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.27*		*16.6667*		*67.6*	*16 - 137*			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0080 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0080-MS2) - Continued		**Source: 1501140-04**			Prepared: 4/2/2015 Analyzed: 4/3/2015				
Surrogate: Tetrachloro-m-xylene	*10.03*		*16.6667*		*60.2*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*10.73*		*16.6667*		*64.4*	*16 - 105*			
Matrix Spike Dup (B5D0080-MSD1)		**Source: 1501180-19**			Prepared: 4/2/2015 Analyzed: 4/3/2015				
4,4´-DDD	12.7117	2.0	16.6667	ND	76.3	27 - 123	0.700	20	
4,4´-DDD [2C]	13.7142	2.0	16.6667	ND	82.3	27 - 123	0.135	20	
4,4´-DDE	14.0410	2.0	16.6667	ND	84.2	28 - 126	1.33	20	
4,4´-DDE [2C]	15.0538	2.0	16.6667	ND	90.3	28 - 126	1.32	20	
4,4´-DDT	13.5277	2.0	16.6667	ND	81.2	12 - 149	0.344	20	
4,4´-DDT [2C]	14.2765	2.0	16.6667	ND	85.7	12 - 149	0.100	20	
Aldrin	13.5615	1.0	16.6667	ND	81.4	29 - 116	0.304	20	
Aldrin [2C]	14.3452	1.0	16.6667	ND	86.1	29 - 116	0.325	20	
alpha-BHC	12.9953	1.0	16.6667	ND	78.0	27 - 104	2.72	20	
alpha-BHC [2C]	13.6673	1.0	16.6667	ND	82.0	27 - 104	2.68	20	
alpha-Chlordane	13.6970	1.0	16.6667	ND	82.2	14 - 130	0.0913	20	
alpha-Chlordane [2C]	14.5052	1.0	16.6667	ND	87.0	14 - 130	0.00799	20	
beta-BHC	12.3907	1.0	16.6667	ND	74.3	20 - 115	1.90	20	
beta-BHC [2C]	12.8235	1.0	16.6667	ND	76.9	20 - 115	1.90	20	
delta-BHC	12.9165	1.0	16.6667	ND	77.5	8 - 78	4.15	20	
delta-BHC [2C]	13.6998	1.0	16.6667	ND	82.2	8 - 78	4.51	20	M7
Dieldrin	13.1293	2.0	16.6667	ND	78.8	20 - 134	0.355	20	
Dieldrin [2C]	13.5285	2.0	16.6667	ND	81.2	20 - 134	0.729	20	
Endosulfan I	12.6392	1.0	16.6667	ND	75.8	27 - 114	0.205	20	
Endosulfan I [2C]	13.2278	1.0	16.6667	ND	79.4	27 - 114	0.0945	20	
Endosulfan II	11.6090	2.0	16.6667	ND	69.7	16 - 125	3.67	20	
Endosulfan II [2C]	12.0065	2.0	16.6667	ND	72.0	16 - 125	3.86	20	
Endosulfan sulfate	11.4718	2.0	16.6667	ND	68.8	1 - 126	7.08	20	
Endosulfan Sulfate [2C]	11.8735	2.0	16.6667	ND	71.2	1 - 126	6.82	20	
Endrin	13.5948	2.0	16.6667	ND	81.6	33 - 122	0.373	20	
Endrin [2C]	14.1467	2.0	16.6667	ND	84.9	33 - 122	0.416	20	
Endrin aldehyde	9.27483	2.0	16.6667	ND	55.6	0 - 137	5.32	20	
Endrin aldehyde [2C]	9.36350	2.0	16.6667	ND	56.2	0 - 137	4.79	20	
Endrin ketone	9.70417	2.0	16.6667	ND	58.2	10 - 126	7.30	20	
Endrin ketone [2C]	10.2368	2.0	16.6667	ND	61.4	10 - 126	7.24	20	
gamma-BHC	13.0038	1.0	16.6667	ND	78.0	30 - 111	2.49	20	
gamma-BHC [2C]	13.8995	1.0	16.6667	ND	83.4	30 - 111	3.02	20	
gamma-Chlordane	13.3935	1.0	16.6667	ND	80.4	16 - 130	0.431	20	
gamma-Chlordane [2C]	14.3282	1.0	16.6667	ND	86.0	16 - 130	0.186	20	
Heptachlor	14.0125	1.0	16.6667	ND	84.1	34 - 127	0.418	20	
Heptachlor [2C]	14.5427	1.0	16.6667	ND	87.3	34 - 127	0.154	20	
Heptachlor epoxide	13.5995	1.0	16.6667	ND	81.6	19 - 130	0.573	20	
Heptachlor epoxide [2C]	14.1275	1.0	16.6667	ND	84.8	19 - 130	0.658	20	
Methoxychlor	12.3958	5.0	16.6667	ND	74.4	16 - 153	2.58	20	
Methoxychlor [2C]	12.4927	5.0	16.6667	ND	75.0	16 - 153	2.30	20	
Surrogate: Decachlorobiphenyl	*11.96*		*16.6667*		*71.7*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.16*		*16.6667*		*72.9*	*16 - 137*			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0080 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0080-MSD1) - Continued		**Source: 1501180-19**			Prepared: 4/2/2015 Analyzed: 4/3/2015				
Surrogate: Tetrachloro-m-xylene	*11.55*		*16.6667*		*69.3*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.23*		*16.6667*		*73.4*	*16 - 105*			
Matrix Spike Dup (B5D0080-MSD2)		**Source: 1501140-04**			Prepared: 4/2/2015 Analyzed: 4/3/2015				
4,4´-DDD	11.6038	2.0	16.6667	ND	69.6	27 - 123	2.64	20	
4,4´-DDD [2C]	13.0578	2.0	16.6667	ND	78.3	27 - 123	0.421	20	
4,4´-DDE	40.6682	2.0	16.6667	14.6255	156	28 - 126	3.41	20	M1
4,4´-DDE [2C]	45.9560	2.0	16.6667	17.0910	173	28 - 126	2.54	20	M1
4,4´-DDT	19.5952	2.0	16.6667	1.58883	108	12 - 149	14.0	20	
4,4´-DDT [2C]	19.1393	2.0	16.6667	2.17383	102	12 - 149	2.15	20	
Aldrin	12.9272	1.0	16.6667	ND	77.6	29 - 116	4.84	20	
Aldrin [2C]	13.6205	1.0	16.6667	ND	81.7	29 - 116	4.16	20	
alpha-BHC	12.1858	1.0	16.6667	ND	73.1	27 - 104	6.20	20	
alpha-BHC [2C]	12.9043	1.0	16.6667	ND	77.4	27 - 104	5.98	20	
alpha-Chlordane	13.1400	1.0	16.6667	ND	78.8	14 - 130	3.86	20	
alpha-Chlordane [2C]	14.2582	1.0	16.6667	ND	85.5	14 - 130	2.72	20	
beta-BHC	11.7008	1.0	16.6667	ND	70.2	20 - 115	5.12	20	
beta-BHC [2C]	12.0393	1.0	16.6667	ND	72.2	20 - 115	4.31	20	
delta-BHC	12.4657	1.0	16.6667	ND	74.8	8 - 78	4.79	20	
delta-BHC [2C]	13.2492	1.0	16.6667	ND	79.5	8 - 78	4.69	20	M7
Dieldrin	11.8687	2.0	16.6667	0.234667	69.8	20 - 134	3.87	20	
Dieldrin [2C]	12.9373	2.0	16.6667	0.193000	76.5	20 - 134	1.93	20	
Endosulfan I	11.9233	1.0	16.6667	ND	71.5	27 - 114	3.85	20	
Endosulfan I [2C]	12.6347	1.0	16.6667	ND	75.8	27 - 114	2.36	20	
Endosulfan II	11.0928	2.0	16.6667	ND	66.6	16 - 125	1.18	20	
Endosulfan II [2C]	11.4967	2.0	16.6667	ND	69.0	16 - 125	0.300	20	
Endosulfan sulfate	11.5235	2.0	16.6667	ND	69.1	1 - 126	0.233	20	
Endosulfan Sulfate [2C]	11.7183	2.0	16.6667	ND	70.3	1 - 126	2.01	20	
Endrin	14.0155	2.0	16.6667	ND	84.1	33 - 122	3.37	20	
Endrin [2C]	13.3108	2.0	16.6667	ND	79.9	33 - 122	0.302	20	
Endrin aldehyde	9.34933	2.0	16.6667	ND	56.1	0 - 137	1.78	20	
Endrin aldehyde [2C]	9.47717	2.0	16.6667	ND	56.9	0 - 137	2.35	20	
Endrin ketone	11.3527	2.0	16.6667	ND	68.1	10 - 126	2.33	20	
Endrin ketone [2C]	11.2065	2.0	16.6667	ND	67.2	10 - 126	0.288	20	
gamma-BHC	12.3022	1.0	16.6667	ND	73.8	30 - 111	6.02	20	
gamma-BHC [2C]	13.1055	1.0	16.6667	ND	78.6	30 - 111	5.12	20	
gamma-Chlordane	12.9925	1.0	16.6667	ND	78.0	16 - 130	3.75	20	
gamma-Chlordane [2C]	13.6463	1.0	16.6667	ND	81.9	16 - 130	2.61	20	
Heptachlor	13.2858	1.0	16.6667	ND	79.7	34 - 127	5.47	20	
Heptachlor [2C]	13.8992	1.0	16.6667	ND	83.4	34 - 127	4.72	20	
Heptachlor epoxide	12.8757	1.0	16.6667	ND	77.3	19 - 130	3.57	20	
Heptachlor epoxide [2C]	13.5288	1.0	16.6667	ND	81.2	19 - 130	2.97	20	
Methoxychlor	12.2627	5.0	16.6667	ND	73.6	16 - 153	2.08	20	
Methoxychlor [2C]	12.7308	5.0	16.6667	ND	76.4	16 - 153	1.25	20	
Surrogate: Decachlorobiphenyl	*11.50*		*16.6667*		*69.0*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.35*		*16.6667*		*68.1*	*16 - 137*			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0080 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0080-MSD2) - Continued			**Source: 1501140-04**		Prepared: 4/2/2015 Analyzed: 4/3/2015				
Surrogate: Tetrachloro-m-xylene	*10.78*		*16.6667*		*64.7*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.44*		*16.6667*		*68.6*	*16 - 105*			
Batch B5D0183 - GCSEMI_PCB/PEST_W									
Blank (B5D0183-BLK1)					Prepared: 4/7/2015 Analyzed: 4/7/2015				
4,4´-DDD	ND	0.05			NR				
4,4´-DDD [2C]	ND	0.05			NR				
4,4´-DDE	ND	0.05			NR				
4,4´-DDE [2C]	ND	0.05			NR				
4,4´-DDT	ND	0.05			NR				
4,4´-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0183 - GCSEMI_PCB/PEST_W (continued)									
Blank (B5D0183-BLK1) - Continued					Prepared: 4/7/2015 Analyzed: 4/7/2015				
Methoxychlor [2C]	ND	0.25			NR				
Toxaphene	ND	2.5			NR				
Toxaphene [2C]	ND	2.5			NR				
Surrogate: Decachlorobiphenyl	*0.3937*		*0.500000*		*78.7*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3825*		*0.500000*		*76.5*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3811*		*0.500000*		*76.2*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3935*		*0.500000*		*78.7*	*11 - 133*			
LCS (B5D0183-BS1)					Prepared: 4/7/2015 Analyzed: 4/7/2015				
4,4´-DDD	0.417755	0.05	0.500000		83.6	56 - 107			
4,4´-DDD [2C]	0.449540	0.05	0.500000		89.9	56 - 107			
4,4´-DDE	0.457155	0.05	0.500000		91.4	62 - 107			
4,4´-DDE [2C]	0.490955	0.05	0.500000		98.2	62 - 107			
4,4´-DDT	0.436560	0.05	0.500000		87.3	41 - 110			
4,4´-DDT [2C]	0.457080	0.05	0.500000		91.4	41 - 110			
Aldrin	0.446020	0.02	0.500000		89.2	56 - 101			
Aldrin [2C]	0.478305	0.02	0.500000		95.7	56 - 101			
alpha-BHC	0.417690	0.02	0.500000		83.5	55 - 89			
alpha-BHC [2C]	0.441180	0.02	0.500000		88.2	55 - 89			
alpha-Chlordane	0.445825	0.02	0.500000		89.2	57 - 103			
alpha-Chlordane [2C]	0.479620	0.02	0.500000		95.9	57 - 103			
beta-BHC	0.404620	0.02	0.500000		80.9	58 - 95			
beta-BHC [2C]	0.422225	0.02	0.500000		84.4	58 - 95			
delta-BHC	0.426655	0.02	0.500000		85.3	12 - 80			L3
delta-BHC [2C]	0.459630	0.02	0.500000		91.9	12 - 80			L3
Dieldrin	0.436655	0.05	0.500000		87.3	60 - 102			
Dieldrin [2C]	0.453225	0.05	0.500000		90.6	60 - 102			
Endosulfan I	0.413715	0.02	0.500000		82.7	55 - 98			
Endosulfan I [2C]	0.439545	0.02	0.500000		87.9	55 - 98			
Endosulfan II	0.423135	0.05	0.500000		84.6	62 - 101			
Endosulfan II [2C]	0.438730	0.05	0.500000		87.7	62 - 101			
Endosulfan sulfate	0.499405	0.05	0.500000		99.9	54 - 95			L3
Endosulfan Sulfate [2C]	0.503500	0.05	0.500000		101	54 - 95			L3
Endrin	0.447645	0.05	0.500000		89.5	62 - 102			
Endrin [2C]	0.467790	0.05	0.500000		93.6	62 - 102			
Endrin aldehyde	0.412460	0.05	0.500000		82.5	62 - 104			
Endrin aldehyde [2C]	0.446515	0.05	0.500000		89.3	62 - 104			
Endrin ketone	0.382395	0.05	0.500000		76.5	61 - 102			
Endrin ketone [2C]	0.382085	0.05	0.500000		76.4	61 - 102			
gamma-BHC	0.428105	0.02	0.500000		85.6	60 - 94			
gamma-BHC [2C]	0.457430	0.02	0.500000		91.5	60 - 94			
gamma-Chlordane	0.445310	0.02	0.500000		89.1	58 - 103			
gamma-Chlordane [2C]	0.474305	0.02	0.500000		94.9	58 - 103			
Heptachlor	0.452945	0.02	0.500000		90.6	65 - 103			
Heptachlor [2C]	0.482525	0.02	0.500000		96.5	65 - 103			
Heptachlor epoxide	0.446640	0.02	0.500000		89.3	59 - 102			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0183 - GCSEMI_PCB/PEST_W (continued)									
LCS (B5D0183-BS1) - Continued					Prepared: 4/7/2015 Analyzed: 4/7/2015				
Heptachlor epoxide [2C]	0.470555	0.02	0.500000		94.1	59 - 102			
Methoxychlor	0.450250	0.25	0.500000		90.0	40 - 105			
Methoxychlor [2C]	0.428340	0.25	0.500000		85.7	40 - 105			
Surrogate: Decachlorobiphenyl	*0.3834*		*0.500000*		*76.7*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3717*		*0.500000*		*74.3*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3705*		*0.500000*		*74.1*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3907*		*0.500000*		*78.1*	*11 - 133*			
LCS Dup (B5D0183-BSD1)					Prepared: 4/7/2015 Analyzed: 4/7/2015				
4,4´-DDD	0.404925	0.05	0.500000		81.0	56 - 107	3.12	20	
4,4´-DDD [2C]	0.434285	0.05	0.500000		86.9	56 - 107	3.45	20	
4,4´-DDE	0.443540	0.05	0.500000		88.7	62 - 107	3.02	20	
4,4´-DDE [2C]	0.474725	0.05	0.500000		94.9	62 - 107	3.36	20	
4,4´-DDT	0.423715	0.05	0.500000		84.7	41 - 110	2.99	20	
4,4´-DDT [2C]	0.441990	0.05	0.500000		88.4	41 - 110	3.36	20	
Aldrin	0.432375	0.02	0.500000		86.5	56 - 101	3.11	20	
Aldrin [2C]	0.461710	0.02	0.500000		92.3	56 - 101	3.53	20	
alpha-BHC	0.402700	0.02	0.500000		80.5	55 - 89	3.65	20	
alpha-BHC [2C]	0.424380	0.02	0.500000		84.9	55 - 89	3.88	20	
alpha-Chlordane	0.432480	0.02	0.500000		86.5	57 - 103	3.04	20	
alpha-Chlordane [2C]	0.463110	0.02	0.500000		92.6	57 - 103	3.50	20	
beta-BHC	0.390360	0.02	0.500000		78.1	58 - 95	3.59	20	
beta-BHC [2C]	0.407575	0.02	0.500000		81.5	58 - 95	3.53	20	
delta-BHC	0.411540	0.02	0.500000		82.3	12 - 80	3.61	20	L3
delta-BHC [2C]	0.442510	0.02	0.500000		88.5	12 - 80	3.80	20	L3
Dieldrin	0.423705	0.05	0.500000		84.7	60 - 102	3.01	20	
Dieldrin [2C]	0.437925	0.05	0.500000		87.6	60 - 102	3.43	20	
Endosulfan I	0.401795	0.02	0.500000		80.4	55 - 98	2.92	20	
Endosulfan I [2C]	0.425030	0.02	0.500000		85.0	55 - 98	3.36	20	
Endosulfan II	0.410535	0.05	0.500000		82.1	62 - 101	3.02	20	
Endosulfan II [2C]	0.424220	0.05	0.500000		84.8	62 - 101	3.36	20	
Endosulfan sulfate	0.484235	0.05	0.500000		96.8	54 - 95	3.08	20	L3
Endosulfan Sulfate [2C]	0.486510	0.05	0.500000		97.3	54 - 95	3.43	20	L3
Endrin	0.434460	0.05	0.500000		86.9	62 - 102	2.99	20	
Endrin [2C]	0.452405	0.05	0.500000		90.5	62 - 102	3.34	20	
Endrin aldehyde	0.400235	0.05	0.500000		80.0	62 - 104	3.01	20	
Endrin aldehyde [2C]	0.431970	0.05	0.500000		86.4	62 - 104	3.31	20	
Endrin ketone	0.369370	0.05	0.500000		73.9	61 - 102	3.47	20	
Endrin ketone [2C]	0.367445	0.05	0.500000		73.5	61 - 102	3.91	20	
gamma-BHC	0.412655	0.02	0.500000		82.5	60 - 94	3.68	20	
gamma-BHC [2C]	0.440430	0.02	0.500000		88.1	60 - 94	3.79	20	
gamma-Chlordane	0.431650	0.02	0.500000		86.3	58 - 103	3.12	20	
gamma-Chlordane [2C]	0.458490	0.02	0.500000		91.7	58 - 103	3.39	20	
Heptachlor	0.438450	0.02	0.500000		87.7	65 - 103	3.25	20	
Heptachlor [2C]	0.465075	0.02	0.500000		93.0	65 - 103	3.68	20	
Heptachlor epoxide	0.432935	0.02	0.500000		86.6	59 - 102	3.12	20	

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0183 - GCSEMI_PCB/PEST_W (continued)									
LCS Dup (B5D0183-BSD1) - Continued					Prepared: 4/7/2015 Analyzed: 4/7/2015				
Heptachlor epoxide [2C]	0.454695	0.02	0.500000		90.9	59 - 102	3.43	20	
Methoxychlor	0.438140	0.25	0.500000		87.6	40 - 105	2.73	20	
Methoxychlor [2C]	0.413170	0.25	0.500000		82.6	40 - 105	3.61	20	
Surrogate: Decachlorobiphenyl	*0.3708*		*0.500000*		*74.2*	*20 - 138*			
Surrogate: Decachlorobiphenyl [2C]	*0.3606*		*0.500000*		*72.1*	*20 - 138*			
Surrogate: Tetrachloro-m-xylene	*0.3574*		*0.500000*		*71.5*	*11 - 133*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.3753*		*0.500000*		*75.1*	*11 - 133*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S									
Blank (B5D0037-BLK1)					Prepared: 4/2/2015 Analyzed: 4/2/2015				
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				
Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Blank (B5D0037-BLK1) - Continued					Prepared: 4/2/2015 Analyzed: 4/2/2015				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				
Surrogate: 1,2-Dichloroethane-d4	*40.60*		*50.0000*		*81.2*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*46.47*		*50.0000*		*92.9*	*20 - 173*			
Surrogate: Dibromofluoromethane	*45.51*		*50.0000*		*91.0*	*26 - 178*			
Surrogate: Toluene-d8	*49.40*		*50.0000*		*98.8*	*31 - 166*			
LCS (B5D0037-BS1)					Prepared: 4/2/2015 Analyzed: 4/2/2015				
1,1,1,2-Tetrachloroethane	51.8500	5.0	50.0000		104	74 - 117			
1,1,1-Trichloroethane	45.0100	5.0	50.0000		90.0	65 - 130			
1,1,2,2-Tetrachloroethane	44.3300	5.0	50.0000		88.7	63 - 123			
1,1,2-Trichloroethane	48.5100	5.0	50.0000		97.0	66 - 122			
1,1-Dichloroethane	41.3600	5.0	50.0000		82.7	65 - 124			
1,1-Dichloroethene	38.7800	5.0	50.0000		77.6	60 - 130			
1,1-Dichloropropene	50.2900	5.0	50.0000		101	75 - 121			
1,2,3-Trichloropropane	43.1800	5.0	50.0000		86.4	62 - 126			
1,2,3-Trichlorobenzene	57.8600	5.0	50.0000		116	72 - 120			
1,2,4-Trichlorobenzene	57.1800	5.0	50.0000		114	75 - 121			
1,2,4-Trimethylbenzene	49.8500	5.0	50.0000		99.7	82 - 118			
1,2-Dibromo-3-chloropropane	43.7800	10	50.0000		87.6	67 - 121			
1,2-Dibromoethane	49.3800	5.0	50.0000		98.8	69 - 123			
1,2-Dichlorobenzene	51.3400	5.0	50.0000		103	81 - 114			
1,2-Dichloroethane	45.7300	5.0	50.0000		91.5	71 - 119			
1,2-Dichloropropane	45.2900	5.0	50.0000		90.6	71 - 118			
1,3,5-Trimethylbenzene	49.4500	5.0	50.0000		98.9	81 - 120			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
LCS (B5D0037-BS1) - Continued					Prepared: 4/2/2015 Analyzed: 4/2/2015				
1,3-Dichlorobenzene	50.9400	5.0	50.0000		102	80 - 115			
1,3-Dichloropropane	47.1400	5.0	50.0000		94.3	77 - 117			
1,4-Dichlorobenzene	50.9700	5.0	50.0000		102	80 - 115			
2,2-Dichloropropane	42.3700	5.0	50.0000		84.7	58 - 141			
2-Chlorotoluene	47.2200	5.0	50.0000		94.4	78 - 120			
4-Chlorotoluene	47.7500	5.0	50.0000		95.5	79 - 119			
4-Isopropyltoluene	53.0200	5.0	50.0000		106	81 - 125			
Benzene	93.9400	5.0	100.000		93.9	73 - 116			
Bromobenzene	48.8400	5.0	50.0000		97.7	78 - 115			
Bromochloromethane	47.7400	5.0	50.0000		95.5	66 - 121			
Bromodichloromethane	47.5100	5.0	50.0000		95.0	73 - 120			
Bromoform	52.5900	5.0	50.0000		105	68 - 124			
Bromomethane	51.0300	5.0	50.0000		102	26 - 163			
Carbon disulfide	31.0800	5.0	50.0000		62.2	43 - 142			
Carbon tetrachloride	49.8500	5.0	50.0000		99.7	67 - 130			
Chlorobenzene	50.2000	5.0	50.0000		100	82 - 114			
Chloroethane	39.5200	5.0	50.0000		79.0	40 - 151			
Chloroform	43.7900	5.0	50.0000		87.6	68 - 124			
Chloromethane	36.3300	5.0	50.0000		72.7	18 - 144			
cis-1,2-Dichloroethene	48.1500	5.0	50.0000		96.3	66 - 125			
cis-1,3-Dichloropropene	45.3700	5.0	50.0000		90.7	77 - 120			
Di-isopropyl ether	40.0500	5.0	50.0000		80.1	56 - 132			
Dibromochloromethane	49.3700	5.0	50.0000		98.7	76 - 118			
Dibromomethane	48.7100	5.0	50.0000		97.4	69 - 122			
Dichlorodifluoromethane	47.8000	5.0	50.0000		95.6	0 - 155			
Ethyl Acetate	404.360	50	500.000		80.9	31 - 137			
Ethyl Ether	404.810	50	500.000		81.0	47 - 150			
Ethyl tert-butyl ether	43.9600	5.0	50.0000		87.9	63 - 134			
Ethylbenzene	97.7400	5.0	100.000		97.7	79 - 115			
Freon-113	38.8000	5.0	50.0000		77.6	62 - 134			
Hexachlorobutadiene	59.3700	5.0	50.0000		119	71 - 121			
Isopropylbenzene	48.7000	5.0	50.0000		97.4	78 - 126			
m,p-Xylene	100.120	10	100.000		100	80 - 119			
Methylene chloride	49.7500	5.0	50.0000		99.5	56 - 129			
MTBE	43.2900	5.0	50.0000		86.6	61 - 124			
n-Butylbenzene	52.9500	5.0	50.0000		106	78 - 127			
n-Propylbenzene	49.0100	5.0	50.0000		98.0	77 - 128			
Naphthalene	51.8900	5.0	50.0000		104	61 - 141			
o-Xylene	99.8100	5.0	100.000		99.8	81 - 116			
sec-Butylbenzene	51.7100	5.0	50.0000		103	81 - 125			
Styrene	52.8200	5.0	50.0000		106	82 - 120			
tert-Amyl methyl ether	43.5900	5.0	50.0000		87.2	52 - 149			
tert-Butanol	170.130	100	250.000		68.1	26 - 160			
tert-Butylbenzene	50.9500	5.0	50.0000		102	80 - 123			
Tetrachloroethene	53.0900	5.0	50.0000		106	75 - 123			
Toluene	99.8300	5.0	100.000		99.8	75 - 119			
trans-1,2-Dichloroethene	46.9800	5.0	50.0000		94.0	62 - 127			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
LCS (B5D0037-BS1) - Continued					Prepared: 4/2/2015 Analyzed: 4/2/2015				
trans-1,3-Dichloropropene	46.7500	5.0	50.0000		93.5	68 - 121			
Trichloroethene	52.3500	5.0	50.0000		105	73 - 119			
Trichlorofluoromethane	37.0500	5.0	50.0000		74.1	47 - 157			
Vinyl acetate	367.450	50	500.000		73.5	20 - 136			
Vinyl chloride	36.9500	5.0	50.0000		73.9	27 - 147			
Surrogate: 1,2-Dichloroethane-d4	*47.85*		*50.0000*		*95.7*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*50.78*		*50.0000*		*102*	*20 - 173*			
Surrogate: Dibromofluoromethane	*47.81*		*50.0000*		*95.6*	*26 - 178*			
Surrogate: Toluene-d8	*51.59*		*50.0000*		*103*	*31 - 166*			
Matrix Spike (B5D0037-MS1)		**Source: 1501167-01**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
1,1,1,2-Tetrachloroethane	46.2000	5.0	50.0000	ND	92.4	45 - 122			
1,1,1-Trichloroethane	47.0600	5.0	50.0000	ND	94.1	46 - 131			
1,1,2,2-Tetrachloroethane	42.9300	5.0	50.0000	ND	85.9	34 - 133			
1,1,2-Trichloroethane	41.7100	5.0	50.0000	ND	83.4	40 - 133			
1,1-Dichloroethane	41.8900	5.0	50.0000	ND	83.8	50 - 120			
1,1-Dichloroethene	40.9500	5.0	50.0000	ND	81.9	42 - 130			
1,1-Dichloropropene	52.1500	5.0	50.0000	ND	104	49 - 125			
1,2,3-Trichloropropane	41.9600	5.0	50.0000	ND	83.9	42 - 130			
1,2,3-Trichlorobenzene	37.1300	5.0	50.0000	ND	74.3	2 - 136			
1,2,4-Trichlorobenzene	38.4600	5.0	50.0000	ND	76.9	6 - 137			
1,2,4-Trimethylbenzene	47.2900	5.0	50.0000	ND	94.6	37 - 129			
1,2-Dibromo-3-chloropropane	40.2200	10	50.0000	ND	80.4	36 - 135			
1,2-Dibromoethane	45.5400	5.0	50.0000	ND	91.1	43 - 129			
1,2-Dichlorobenzene	44.9300	5.0	50.0000	ND	89.9	31 - 129			
1,2-Dichloroethane	41.5800	5.0	50.0000	ND	83.2	50 - 122			
1,2-Dichloropropane	42.4500	5.0	50.0000	ND	84.9	51 - 119			
1,3,5-Trimethylbenzene	48.2100	5.0	50.0000	ND	96.4	38 - 130			
1,3-Dichlorobenzene	46.6300	5.0	50.0000	ND	93.3	31 - 128			
1,3-Dichloropropane	42.4700	5.0	50.0000	ND	84.9	52 - 122			
1,4-Dichlorobenzene	46.4200	5.0	50.0000	ND	92.8	31 - 128			
2,2-Dichloropropane	47.1800	5.0	50.0000	ND	94.4	42 - 140			
2-Chlorotoluene	46.7500	5.0	50.0000	ND	93.5	38 - 129			
4-Chlorotoluene	46.4400	5.0	50.0000	ND	92.9	38 - 128			
4-Isopropyltoluene	48.8600	5.0	50.0000	ND	97.7	31 - 137			
Benzene	89.6400	5.0	100.000	ND	89.6	51 - 117			
Bromobenzene	47.8500	5.0	50.0000	ND	95.7	41 - 125			
Bromochloromethane	43.9300	5.0	50.0000	ND	87.9	47 - 123			
Bromodichloromethane	43.3900	5.0	50.0000	ND	86.8	50 - 122			
Bromoform	46.6500	5.0	50.0000	ND	93.3	39 - 131			
Bromomethane	39.7500	5.0	50.0000	ND	79.5	10 - 154			
Carbon disulfide	33.7100	5.0	50.0000	ND	67.4	24 - 138			
Carbon tetrachloride	50.5700	5.0	50.0000	ND	101	44 - 131			
Chlorobenzene	47.1600	5.0	50.0000	ND	94.3	46 - 123			
Chloroethane	41.2700	5.0	50.0000	ND	82.5	27 - 143			
Chloroform	42.2300	5.0	50.0000	ND	84.5	50 - 124			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Matrix Spike (B5D0037-MS1) - Continued		**Source: 1501167-01**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
Chloromethane	33.1800	5.0	50.0000	ND	66.4	8 - 139			
cis-1,2-Dichloroethene	45.9900	5.0	50.0000	ND	92.0	48 - 125			
cis-1,3-Dichloropropene	42.1900	5.0	50.0000	ND	84.4	51 - 123			
Di-isopropyl ether	38.9500	5.0	50.0000	ND	77.9	45 - 125			
Dibromochloromethane	44.7200	5.0	50.0000	ND	89.4	48 - 124			
Dibromomethane	44.9100	5.0	50.0000	ND	89.8	48 - 124			
Dichlorodifluoromethane	46.5100	5.0	50.0000	ND	93.0	0 - 150			
Ethyl Acetate	382.060	50	500.000	ND	76.4	0 - 140			
Ethyl Ether	366.680	50	500.000	ND	73.3	36 - 142			
Ethyl tert-butyl ether	41.3400	5.0	50.0000	ND	82.7	46 - 133			
Ethylbenzene	92.8700	5.0	100.000	ND	92.9	46 - 123			
Freon-113	41.3300	5.0	50.0000	ND	82.7	38 - 137			
Hexachlorobutadiene	38.8200	5.0	50.0000	ND	77.6	5 - 132			
Isopropylbenzene	50.8200	5.0	50.0000	ND	102	43 - 132			
m,p-Xylene	95.6200	10	100.000	ND	95.6	45 - 128			
Methylene chloride	48.0200	5.0	50.0000	ND	96.0	37 - 126			
MTBE	40.6100	5.0	50.0000	ND	81.2	46 - 125			
n-Butylbenzene	44.0700	5.0	50.0000	ND	88.1	24 - 138			
n-Propylbenzene	49.0700	5.0	50.0000	ND	98.1	40 - 133			
Naphthalene	38.8000	5.0	50.0000	ND	77.6	10 - 149			
o-Xylene	93.2200	5.0	100.000	ND	93.2	45 - 125			
sec-Butylbenzene	47.7900	5.0	50.0000	ND	95.6	33 - 136			
Styrene	48.5500	5.0	50.0000	ND	97.1	43 - 128			
tert-Amyl methyl ether	40.4400	5.0	50.0000	ND	80.9	35 - 147			
tert-Butanol	194.420	100	250.000	ND	77.8	0 - 208			
tert-Butylbenzene	49.4300	5.0	50.0000	ND	98.9	36 - 133			
Tetrachloroethene	53.5000	5.0	50.0000	ND	107	41 - 129			
Toluene	94.3100	5.0	100.000	ND	94.3	49 - 124			
trans-1,2-Dichloroethene	46.9900	5.0	50.0000	ND	94.0	44 - 126			
trans-1,3-Dichloropropene	41.7300	5.0	50.0000	ND	83.5	42 - 125			
Trichloroethene	53.0400	5.0	50.0000	ND	106	38 - 139			
Trichlorofluoromethane	40.7100	5.0	50.0000	ND	81.4	30 - 157			
Vinyl acetate	324.350	50	500.000	ND	64.9	0 - 132			
Vinyl chloride	39.2100	5.0	50.0000	ND	78.4	19 - 142			
Surrogate: 1,2-Dichloroethane-d4	*48.37*		*50.0000*		*96.7*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*50.44*		*50.0000*		*101*	*20 - 173*			
Surrogate: Dibromofluoromethane	*49.27*		*50.0000*		*98.5*	*26 - 178*			
Surrogate: Toluene-d8	*50.26*		*50.0000*		*101*	*31 - 166*			
Matrix Spike Dup (B5D0037-MSD1)		**Source: 1501167-01**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
1,1,1,2-Tetrachloroethane	44.7500	5.0	50.0000	ND	89.5	45 - 122	3.19	20	
1,1,1-Trichloroethane	40.1400	5.0	50.0000	ND	80.3	46 - 131	15.9	20	
1,1,2,2-Tetrachloroethane	41.5300	5.0	50.0000	ND	83.1	34 - 133	3.32	20	
1,1,2-Trichloroethane	42.6300	5.0	50.0000	ND	85.3	40 - 133	2.18	20	
1,1-Dichloroethane	36.4200	5.0	50.0000	ND	72.8	50 - 120	14.0	20	
1,1-Dichloroethene	33.3100	5.0	50.0000	ND	66.6	42 - 130	20.6	20	R

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Matrix Spike Dup (B5D0037-MSD1) - Continued		**Source: 1501167-01**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
1,1-Dichloropropene	46.0400	5.0	50.0000	ND	92.1	49 - 125	12.4	20	
1,2,3-Trichloropropane	40.6200	5.0	50.0000	ND	81.2	42 - 130	3.25	20	
1,2,3-Trichlorobenzene	39.3000	5.0	50.0000	ND	78.6	2 - 136	5.68	20	
1,2,4-Trichlorobenzene	39.3400	5.0	50.0000	ND	78.7	6 - 137	2.26	20	
1,2,4-Trimethylbenzene	43.6800	5.0	50.0000	ND	87.4	37 - 129	7.94	20	
1,2-Dibromo-3-chloropropane	43.5400	10	50.0000	ND	87.1	36 - 135	7.93	20	
1,2-Dibromoethane	45.1500	5.0	50.0000	ND	90.3	43 - 129	0.860	20	
1,2-Dichlorobenzene	42.2900	5.0	50.0000	ND	84.6	31 - 129	6.05	20	
1,2-Dichloroethane	40.6600	5.0	50.0000	ND	81.3	50 - 122	2.24	20	
1,2-Dichloropropane	40.5200	5.0	50.0000	ND	81.0	51 - 119	4.65	20	
1,3,5-Trimethylbenzene	43.6600	5.0	50.0000	ND	87.3	38 - 130	9.91	20	
1,3-Dichlorobenzene	42.7300	5.0	50.0000	ND	85.5	31 - 128	8.73	20	
1,3-Dichloropropane	42.1800	5.0	50.0000	ND	84.4	52 - 122	0.685	20	
1,4-Dichlorobenzene	43.2300	5.0	50.0000	ND	86.5	31 - 128	7.12	20	
2,2-Dichloropropane	39.5400	5.0	50.0000	ND	79.1	42 - 140	17.6	20	
2-Chlorotoluene	42.0100	5.0	50.0000	ND	84.0	38 - 129	10.7	20	
4-Chlorotoluene	42.2100	5.0	50.0000	ND	84.4	38 - 128	9.54	20	
4-Isopropyltoluene	44.6600	5.0	50.0000	ND	89.3	31 - 137	8.98	20	
Benzene	84.3900	5.0	100.000	ND	84.4	51 - 117	6.03	20	
Bromobenzene	44.5200	5.0	50.0000	ND	89.0	41 - 125	7.21	20	
Bromochloromethane	40.7200	5.0	50.0000	ND	81.4	47 - 123	7.58	20	
Bromodichloromethane	41.7100	5.0	50.0000	ND	83.4	50 - 122	3.95	20	
Bromoform	46.7800	5.0	50.0000	ND	93.6	39 - 131	0.278	20	
Bromomethane	34.9400	5.0	50.0000	ND	69.9	10 - 154	12.9	20	
Carbon disulfide	26.6200	5.0	50.0000	ND	53.2	24 - 138	23.5	20	R
Carbon tetrachloride	44.9900	5.0	50.0000	ND	90.0	44 - 131	11.7	20	
Chlorobenzene	44.4000	5.0	50.0000	ND	88.8	46 - 123	6.03	20	
Chloroethane	33.4200	5.0	50.0000	ND	66.8	27 - 143	21.0	20	R
Chloroform	37.9300	5.0	50.0000	ND	75.9	50 - 124	10.7	20	
Chloromethane	32.3100	5.0	50.0000	ND	64.6	8 - 139	2.66	20	
cis-1,2-Dichloroethene	40.8900	5.0	50.0000	ND	81.8	48 - 125	11.7	20	
cis-1,3-Dichloropropene	41.5400	5.0	50.0000	ND	83.1	51 - 123	1.55	20	
Di-isopropyl ether	37.0900	5.0	50.0000	ND	74.2	45 - 125	4.89	20	
Dibromochloromethane	44.3100	5.0	50.0000	ND	88.6	48 - 124	0.921	20	
Dibromomethane	42.8200	5.0	50.0000	ND	85.6	48 - 124	4.76	20	
Dichlorodifluoromethane	43.1300	5.0	50.0000	ND	86.3	0 - 150	7.54	20	
Ethyl Acetate	388.750	50	500.000	ND	77.8	0 - 140	1.74	20	
Ethyl Ether	354.550	50	500.000	ND	70.9	36 - 142	3.36	20	
Ethyl tert-butyl ether	41.3700	5.0	50.0000	ND	82.7	46 - 133	0.0725	20	
Ethylbenzene	87.6400	5.0	100.000	ND	87.6	46 - 123	5.79	20	
Freon-113	34.2300	5.0	50.0000	ND	68.5	38 - 137	18.8	20	
Hexachlorobutadiene	37.9600	5.0	50.0000	ND	75.9	5 - 132	2.24	20	
Isopropylbenzene	45.0100	5.0	50.0000	ND	90.0	43 - 132	12.1	20	
m,p-Xylene	91.4500	10	100.000	ND	91.4	45 - 128	4.46	20	
Methylene chloride	42.7600	5.0	50.0000	ND	85.5	37 - 126	11.6	20	
MTBE	41.0300	5.0	50.0000	ND	82.1	46 - 125	1.03	20	
n-Butylbenzene	40.6900	5.0	50.0000	ND	81.4	24 - 138	7.98	20	

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0037 - MSVOA_S (continued)									
Matrix Spike Dup (B5D0037-MSD1) - Continued		**Source: 1501167-01**			Prepared: 4/2/2015 Analyzed: 4/2/2015				
n-Propylbenzene	43.5100	5.0	50.0000	ND	87.0	40 - 133	12.0	20	
Naphthalene	43.9500	5.0	50.0000	ND	87.9	10 - 149	12.4	20	
o-Xylene	92.1100	5.0	100.000	ND	92.1	45 - 125	1.20	20	
sec-Butylbenzene	43.0500	5.0	50.0000	ND	86.1	33 - 136	10.4	20	
Styrene	47.1200	5.0	50.0000	ND	94.2	43 - 128	2.99	20	
tert-Amyl methyl ether	41.4100	5.0	50.0000	ND	82.8	35 - 147	2.37	20	
tert-Butanol	193.570	100	250.000	ND	77.4	0 - 208	0.438	20	
tert-Butylbenzene	44.6600	5.0	50.0000	ND	89.3	36 - 133	10.1	20	
Tetrachloroethene	48.3400	5.0	50.0000	ND	96.7	41 - 129	10.1	20	
Toluene	89.4900	5.0	100.000	ND	89.5	49 - 124	5.24	20	
trans-1,2-Dichloroethene	41.2100	5.0	50.0000	ND	82.4	44 - 126	13.1	20	
trans-1,3-Dichloropropene	40.6000	5.0	50.0000	ND	81.2	42 - 125	2.75	20	
Trichloroethene	47.9100	5.0	50.0000	ND	95.8	38 - 139	10.2	20	
Trichlorofluoromethane	31.7200	5.0	50.0000	ND	63.4	30 - 157	24.8	20	R
Vinyl acetate	295.610	50	500.000	ND	59.1	0 - 132	9.27	20	
Vinyl chloride	34.3000	5.0	50.0000	ND	68.6	19 - 142	13.4	20	
Surrogate: 1,2-Dichloroethane-d4	*45.79*		*50.0000*		*91.6*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*52.14*		*50.0000*		*104*	*20 - 173*			
Surrogate: Dibromofluoromethane	*46.25*		*50.0000*		*92.5*	*26 - 178*			
Surrogate: Toluene-d8	*51.34*		*50.0000*		*103*	*31 - 166*			
Batch B5D0451 - MSVOA_S									
Blank (B5D0451-BLK1)					Prepared: 4/15/2015 Analyzed: 4/15/2015				
1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trichlorobenzene	ND	5.0			NR				
1,2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0451 - MSVOA_S (continued)									
Blank (B5D0451-BLK1) - Continued					Prepared: 4/15/2015 Analyzed: 4/15/2015				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				
Dichlorodifluoromethane	ND	5.0			NR				
Ethyl Acetate	ND	50			NR				
Ethyl Ether	ND	50			NR				
Ethyl tert-butyl ether	ND	5.0			NR				
Ethylbenzene	ND	5.0			NR				
Freon-113	ND	5.0			NR				
Hexachlorobutadiene	ND	5.0			NR				
Isopropylbenzene	ND	5.0			NR				
m,p-Xylene	ND	10			NR				
Methylene chloride	ND	5.0			NR				
MTBE	ND	5.0			NR				
n-Butylbenzene	ND	5.0			NR				
n-Propylbenzene	ND	5.0			NR				
Naphthalene	ND	5.0			NR				
o-Xylene	ND	5.0			NR				
sec-Butylbenzene	ND	5.0			NR				
Styrene	ND	5.0			NR				
tert-Amyl methyl ether	ND	5.0			NR				
tert-Butanol	ND	100			NR				
tert-Butylbenzene	ND	5.0			NR				
Tetrachloroethene	ND	5.0			NR				
Toluene	ND	5.0			NR				
trans-1,2-Dichloroethene	ND	5.0			NR				
trans-1,3-Dichloropropene	ND	5.0			NR				
Trichloroethene	ND	5.0			NR				
Trichlorofluoromethane	ND	5.0			NR				
Vinyl acetate	ND	50			NR				
Vinyl chloride	ND	5.0			NR				

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0451 - MSVOA_S (continued)									
Blank (B5D0451-BLK1) - Continued					Prepared: 4/15/2015 Analyzed: 4/15/2015				
Surrogate: 1,2-Dichloroethane-d4	*45.46*		*50.0000*		*90.9*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*44.09*		*50.0000*		*88.2*	*20 - 173*			
Surrogate: Dibromofluoromethane	*47.85*		*50.0000*		*95.7*	*26 - 178*			
Surrogate: Toluene-d8	*50.83*		*50.0000*		*102*	*31 - 166*			
LCS (B5D0451-BS1)					Prepared: 4/15/2015 Analyzed: 4/15/2015				
1,1,1,2-Tetrachloroethane	50.1900	5.0	50.0000		100	74 - 117			
1,1,1-Trichloroethane	44.4400	5.0	50.0000		88.9	65 - 130			
1,1,2,2-Tetrachloroethane	44.8500	5.0	50.0000		89.7	63 - 123			
1,1,2-Trichloroethane	47.4200	5.0	50.0000		94.8	66 - 122			
1,1-Dichloroethane	41.2000	5.0	50.0000		82.4	65 - 124			
1,1-Dichloroethene	32.0500	5.0	50.0000		64.1	60 - 130			
1,1-Dichloropropene	46.0200	5.0	50.0000		92.0	75 - 121			
1,2,3-Trichloropropane	46.2600	5.0	50.0000		92.5	62 - 126			
1,2,3-Trichlorobenzene	52.8300	5.0	50.0000		106	72 - 120			
1,2,4-Trichlorobenzene	56.1900	5.0	50.0000		112	75 - 121			
1,2,4-Trimethylbenzene	55.9700	5.0	50.0000		112	82 - 118			
1,2-Dibromo-3-chloropropane	45.1100	10	50.0000		90.2	67 - 121			
1,2-Dibromoethane	52.5200	5.0	50.0000		105	69 - 123			
1,2-Dichlorobenzene	51.5700	5.0	50.0000		103	81 - 114			
1,2-Dichloroethane	48.9700	5.0	50.0000		97.9	71 - 119			
1,2-Dichloropropane	45.3600	5.0	50.0000		90.7	71 - 118			
1,3,5-Trimethylbenzene	55.0700	5.0	50.0000		110	81 - 120			
1,3-Dichlorobenzene	53.4100	5.0	50.0000		107	80 - 115			
1,3-Dichloropropane	47.7000	5.0	50.0000		95.4	77 - 117			
1,4-Dichlorobenzene	52.4800	5.0	50.0000		105	80 - 115			
2,2-Dichloropropane	45.9600	5.0	50.0000		91.9	58 - 141			
2-Chlorotoluene	52.3800	5.0	50.0000		105	78 - 120			
4-Chlorotoluene	53.0600	5.0	50.0000		106	79 - 119			
4-Isopropyltoluene	56.0300	5.0	50.0000		112	81 - 125			
Benzene	87.2600	5.0	100.000		87.3	73 - 116			
Bromobenzene	51.6000	5.0	50.0000		103	78 - 115			
Bromochloromethane	44.0700	5.0	50.0000		88.1	66 - 121			
Bromodichloromethane	49.1100	5.0	50.0000		98.2	73 - 120			
Bromoform	52.0500	5.0	50.0000		104	68 - 124			
Bromomethane	41.4800	5.0	50.0000		83.0	26 - 163			
Carbon disulfide	25.1900	5.0	50.0000		50.4	43 - 142			
Carbon tetrachloride	47.5300	5.0	50.0000		95.1	67 - 130			
Chlorobenzene	51.8500	5.0	50.0000		104	82 - 114			
Chloroethane	43.9500	5.0	50.0000		87.9	40 - 151			
Chloroform	45.6100	5.0	50.0000		91.2	68 - 124			
Chloromethane	32.8600	5.0	50.0000		65.7	18 - 144			
cis-1,2-Dichloroethene	44.6600	5.0	50.0000		89.3	66 - 125			
cis-1,3-Dichloropropene	49.0800	5.0	50.0000		98.2	77 - 120			
Di-isopropyl ether	44.6200	5.0	50.0000		89.2	56 - 132			
Dibromochloromethane	49.4000	5.0	50.0000		98.8	76 - 118			
Dibromomethane	47.5700	5.0	50.0000		95.1	69 - 122			

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Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0451 - MSVOA_S (continued)									
LCS (B5D0451-BS1) - Continued					Prepared: 4/15/2015 Analyzed: 4/15/2015				
Dichlorodifluoromethane	28.7800	5.0	50.0000		57.6	0 - 155			
Ethyl Acetate	480.170	50	500.000		96.0	31 - 137			
Ethyl Ether	512.300	50	500.000		102	47 - 150			
Ethyl tert-butyl ether	48.8600	5.0	50.0000		97.7	63 - 134			
Ethylbenzene	102.740	5.0	100.000		103	79 - 115			
Freon-113	33.4200	5.0	50.0000		66.8	62 - 134			
Hexachlorobutadiene	53.7400	5.0	50.0000		107	71 - 121			
Isopropylbenzene	53.7600	5.0	50.0000		108	78 - 126			
m,p-Xylene	112.420	10	100.000		112	80 - 119			
Methylene chloride	44.8300	5.0	50.0000		89.7	56 - 129			
MTBE	45.1500	5.0	50.0000		90.3	61 - 124			
n-Butylbenzene	54.9800	5.0	50.0000		110	78 - 127			
n-Propylbenzene	53.3200	5.0	50.0000		107	77 - 128			
Naphthalene	50.8800	5.0	50.0000		102	61 - 141			
o-Xylene	111.580	5.0	100.000		112	81 - 116			
sec-Butylbenzene	53.9200	5.0	50.0000		108	81 - 125			
Styrene	57.6800	5.0	50.0000		115	82 - 120			
tert-Amyl methyl ether	48.2700	5.0	50.0000		96.5	52 - 149			
tert-Butanol	236.040	100	250.000		94.4	26 - 160			
tert-Butylbenzene	54.3400	5.0	50.0000		109	80 - 123			
Tetrachloroethene	51.1500	5.0	50.0000		102	75 - 123			
Toluene	102.090	5.0	100.000		102	75 - 119			
trans-1,2-Dichloroethene	40.4900	5.0	50.0000		81.0	62 - 127			
trans-1,3-Dichloropropene	49.9000	5.0	50.0000		99.8	68 - 121			
Trichloroethene	48.8100	5.0	50.0000		97.6	73 - 119			
Trichlorofluoromethane	39.1900	5.0	50.0000		78.4	47 - 157			
Vinyl acetate	412.750	50	500.000		82.6	20 - 136			
Vinyl chloride	36.2500	5.0	50.0000		72.5	27 - 147			
Surrogate: 1,2-Dichloroethane-d4	*54.29*		*50.0000*		*109*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*51.05*		*50.0000*		*102*	*20 - 173*			
Surrogate: Dibromofluoromethane	*49.40*		*50.0000*		*98.8*	*26 - 178*			
Surrogate: Toluene-d8	*52.95*		*50.0000*		*106*	*31 - 166*			
Matrix Spike (B5D0451-MS1)		**Source: 1501304-01**			Prepared: 4/15/2015 Analyzed: 4/15/2015				
1,1,1,2-Tetrachloroethane	45.3700	5.0	50.0000	ND	90.7	45 - 122			
1,1,1-Trichloroethane	40.8500	5.0	50.0000	ND	81.7	46 - 131			
1,1,2,2-Tetrachloroethane	42.2800	5.0	50.0000	ND	84.6	34 - 133			
1,1,2-Trichloroethane	43.9000	5.0	50.0000	ND	87.8	40 - 133			
1,1-Dichloroethane	37.2100	5.0	50.0000	ND	74.4	50 - 120			
1,1-Dichloroethene	29.2200	5.0	50.0000	ND	58.4	42 - 130			
1,1-Dichloropropene	41.8300	5.0	50.0000	ND	83.7	49 - 125			
1,2,3-Trichloropropane	43.0000	5.0	50.0000	ND	86.0	42 - 130			
1,2,3-Trichlorobenzene	42.0200	5.0	50.0000	ND	84.0	2 - 136			
1,2,4-Trichlorobenzene	45.0800	5.0	50.0000	ND	90.2	6 - 137			
1,2,4-Trimethylbenzene	47.7700	5.0	50.0000	ND	95.5	37 - 129			
1,2-Dibromo-3-chloropropane	44.4800	10	50.0000	ND	89.0	36 - 135			

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Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0451 - MSVOA_S (continued)									
Matrix Spike (B5D0451-MS1) - Continued		**Source: 1501304-01**			Prepared: 4/15/2015 Analyzed: 4/15/2015				
1,2-Dibromoethane	48.9700	5.0	50.0000	ND	97.9	43 - 129			
1,2-Dichlorobenzene	44.9300	5.0	50.0000	ND	89.9	31 - 129			
1,2-Dichloroethane	44.4500	5.0	50.0000	ND	88.9	50 - 122			
1,2-Dichloropropane	39.2400	5.0	50.0000	ND	78.5	51 - 119			
1,3,5-Trimethylbenzene	46.7400	5.0	50.0000	ND	93.5	38 - 130			
1,3-Dichlorobenzene	45.1900	5.0	50.0000	ND	90.4	31 - 128			
1,3-Dichloropropane	43.0300	5.0	50.0000	ND	86.1	52 - 122			
1,4-Dichlorobenzene	44.4500	5.0	50.0000	ND	88.9	31 - 128			
2,2-Dichloropropane	40.8400	5.0	50.0000	ND	81.7	42 - 140			
2-Chlorotoluene	44.2000	5.0	50.0000	ND	88.4	38 - 129			
4-Chlorotoluene	44.6300	5.0	50.0000	ND	89.3	38 - 128			
4-Isopropyltoluene	47.2600	5.0	50.0000	ND	94.5	31 - 137			
Benzene	77.3600	5.0	100.000	ND	77.4	51 - 117			
Bromobenzene	44.9800	5.0	50.0000	ND	90.0	41 - 125			
Bromochloromethane	40.3000	5.0	50.0000	ND	80.6	47 - 123			
Bromodichloromethane	43.6100	5.0	50.0000	ND	87.2	50 - 122			
Bromoform	49.1500	5.0	50.0000	ND	98.3	39 - 131			
Bromomethane	32.5300	5.0	50.0000	ND	65.1	10 - 154			
Carbon disulfide	21.9900	5.0	50.0000	ND	44.0	24 - 138			
Carbon tetrachloride	42.6500	5.0	50.0000	ND	85.3	44 - 131			
Chlorobenzene	44.4400	5.0	50.0000	ND	88.9	46 - 123			
Chloroethane	34.7400	5.0	50.0000	ND	69.5	27 - 143			
Chloroform	41.1900	5.0	50.0000	ND	82.4	50 - 124			
Chloromethane	29.1400	5.0	50.0000	ND	58.3	8 - 139			
cis-1,2-Dichloroethene	39.4600	5.0	50.0000	ND	78.9	48 - 125			
cis-1,3-Dichloropropene	43.2800	5.0	50.0000	ND	86.6	51 - 123			
Di-isopropyl ether	39.6500	5.0	50.0000	ND	79.3	45 - 125			
Dibromochloromethane	45.3400	5.0	50.0000	ND	90.7	48 - 124			
Dibromomethane	43.7300	5.0	50.0000	ND	87.5	48 - 124			
Dichlorodifluoromethane	25.4400	5.0	50.0000	ND	50.9	0 - 150			
Ethyl Acetate	423.440	50	500.000	ND	84.7	0 - 140			
Ethyl Ether	448.280	50	500.000	ND	89.7	36 - 142			
Ethyl tert-butyl ether	44.5600	5.0	50.0000	ND	89.1	46 - 133			
Ethylbenzene	89.8800	5.0	100.000	ND	89.9	46 - 123			
Freon-113	30.6800	5.0	50.0000	ND	61.4	38 - 137			
Hexachlorobutadiene	40.5800	5.0	50.0000	ND	81.2	5 - 132			
Isopropylbenzene	46.4600	5.0	50.0000	ND	92.9	43 - 132			
m,p-Xylene	96.0100	10	100.000	ND	96.0	45 - 128			
Methylene chloride	39.6900	5.0	50.0000	ND	79.4	37 - 126			
MTBE	41.8000	5.0	50.0000	ND	83.6	46 - 125			
n-Butylbenzene	45.8400	5.0	50.0000	ND	91.7	24 - 138			
n-Propylbenzene	45.6200	5.0	50.0000	ND	91.2	40 - 133			
Naphthalene	43.7500	5.0	50.0000	ND	87.5	10 - 149			
o-Xylene	94.6000	5.0	100.000	ND	94.6	45 - 125			
sec-Butylbenzene	45.7600	5.0	50.0000	ND	91.5	33 - 136			
Styrene	49.5500	5.0	50.0000	ND	99.1	43 - 128			
tert-Amyl methyl ether	45.0000	5.0	50.0000	ND	90.0	35 - 147			

TRC
707 Wilshire Blvd., Suite 3250
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Project Number : LAUSD Foshay, 231058.0000.0004
Report To : John C. Gonzales
Reported : 04/20/2015

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0451 - MSVOA_S (continued)									
Matrix Spike (B5D0451-MS1) - Continued		**Source: 1501304-01**			Prepared: 4/15/2015 Analyzed: 4/15/2015				
tert-Butanol	254.350	100	250.000	ND	102	0 - 208			
tert-Butylbenzene	46.5200	5.0	50.0000	ND	93.0	36 - 133			
Tetrachloroethene	45.7000	5.0	50.0000	ND	91.4	41 - 129			
Toluene	88.9100	5.0	100.000	ND	88.9	49 - 124			
trans-1,2-Dichloroethene	36.8800	5.0	50.0000	ND	73.8	44 - 126			
trans-1,3-Dichloropropene	46.2400	5.0	50.0000	ND	92.5	42 - 125			
Trichloroethene	44.6900	5.0	50.0000	ND	89.4	38 - 139			
Trichlorofluoromethane	36.4100	5.0	50.0000	ND	72.8	30 - 157			
Vinyl acetate	300.340	50	500.000	ND	60.1	0 - 132			
Vinyl chloride	31.9100	5.0	50.0000	ND	63.8	19 - 142			
Surrogate: 1,2-Dichloroethane-d4	*58.36*		*50.0000*		*117*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*52.50*		*50.0000*		*105*	*20 - 173*			
Surrogate: Dibromofluoromethane	*51.77*		*50.0000*		*104*	*26 - 178*			
Surrogate: Toluene-d8	*52.20*		*50.0000*		*104*	*31 - 166*			
Matrix Spike Dup (B5D0451-MSD1)		**Source: 1501304-01**			Prepared: 4/15/2015 Analyzed: 4/15/2015				
1,1,1,2-Tetrachloroethane	44.0800	5.0	50.0000	ND	88.2	45 - 122	2.88	20	
1,1,1-Trichloroethane	39.8800	5.0	50.0000	ND	79.8	46 - 131	2.40	20	
1,1,2,2-Tetrachloroethane	39.9800	5.0	50.0000	ND	80.0	34 - 133	5.59	20	
1,1,2-Trichloroethane	42.5900	5.0	50.0000	ND	85.2	40 - 133	3.03	20	
1,1-Dichloroethane	35.9000	5.0	50.0000	ND	71.8	50 - 120	3.58	20	
1,1-Dichloroethene	27.9600	5.0	50.0000	ND	55.9	42 - 130	4.41	20	
1,1-Dichloropropene	40.5200	5.0	50.0000	ND	81.0	49 - 125	3.18	20	
1,2,3-Trichloropropane	41.5500	5.0	50.0000	ND	83.1	42 - 130	3.43	20	
1,2,3-Trichlorobenzene	42.5400	5.0	50.0000	ND	85.1	2 - 136	1.23	20	
1,2,4-Trichlorobenzene	44.2800	5.0	50.0000	ND	88.6	6 - 137	1.79	20	
1,2,4-Trimethylbenzene	45.8900	5.0	50.0000	ND	91.8	37 - 129	4.01	20	
1,2-Dibromo-3-chloropropane	43.2900	10	50.0000	ND	86.6	36 - 135	2.71	20	
1,2-Dibromoethane	47.4400	5.0	50.0000	ND	94.9	43 - 129	3.17	20	
1,2-Dichlorobenzene	43.1900	5.0	50.0000	ND	86.4	31 - 129	3.95	20	
1,2-Dichloroethane	42.5100	5.0	50.0000	ND	85.0	50 - 122	4.46	20	
1,2-Dichloropropane	39.5800	5.0	50.0000	ND	79.2	51 - 119	0.863	20	
1,3,5-Trimethylbenzene	45.8600	5.0	50.0000	ND	91.7	38 - 130	1.90	20	
1,3-Dichlorobenzene	43.2300	5.0	50.0000	ND	86.5	31 - 128	4.43	20	
1,3-Dichloropropane	41.7900	5.0	50.0000	ND	83.6	52 - 122	2.92	20	
1,4-Dichlorobenzene	41.9600	5.0	50.0000	ND	83.9	31 - 128	5.76	20	
2,2-Dichloropropane	39.7100	5.0	50.0000	ND	79.4	42 - 140	2.81	20	
2-Chlorotoluene	42.7200	5.0	50.0000	ND	85.4	38 - 129	3.41	20	
4-Chlorotoluene	42.8600	5.0	50.0000	ND	85.7	38 - 128	4.05	20	
4-Isopropyltoluene	45.7400	5.0	50.0000	ND	91.5	31 - 137	3.27	20	
Benzene	74.4300	5.0	100.000	ND	74.4	51 - 117	3.86	20	
Bromobenzene	43.4100	5.0	50.0000	ND	86.8	41 - 125	3.55	20	
Bromochloromethane	38.3000	5.0	50.0000	ND	76.6	47 - 123	5.09	20	
Bromodichloromethane	41.6500	5.0	50.0000	ND	83.3	50 - 122	4.60	20	
Bromoform	47.9300	5.0	50.0000	ND	95.9	39 - 131	2.51	20	
Bromomethane	31.0000	5.0	50.0000	ND	62.0	10 - 154	4.82	20	

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Project Number : LAUSD Foshay, 231058.0000.0004
Report To : John C. Gonzales
Reported : 04/20/2015

Volatile Organic Compounds by EPA 5035/EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0451 - MSVOA_S (continued)									
Matrix Spike Dup (B5D0451-MSD1) - Continued		**Source: 1501304-01**			Prepared: 4/15/2015 Analyzed: 4/15/2015				
Carbon disulfide	23.8700	5.0	50.0000	ND	47.7	24 - 138	8.20	20	
Carbon tetrachloride	41.2100	5.0	50.0000	ND	82.4	44 - 131	3.43	20	
Chlorobenzene	43.5000	5.0	50.0000	ND	87.0	46 - 123	2.14	20	
Chloroethane	33.8600	5.0	50.0000	ND	67.7	27 - 143	2.57	20	
Chloroform	40.5500	5.0	50.0000	ND	81.1	50 - 124	1.57	20	
Chloromethane	29.2400	5.0	50.0000	ND	58.5	8 - 139	0.343	20	
cis-1,2-Dichloroethene	38.7600	5.0	50.0000	ND	77.5	48 - 125	1.79	20	
cis-1,3-Dichloropropene	41.9200	5.0	50.0000	ND	83.8	51 - 123	3.19	20	
Di-isopropyl ether	38.3900	5.0	50.0000	ND	76.8	45 - 125	3.23	20	
Dibromochloromethane	43.8700	5.0	50.0000	ND	87.7	48 - 124	3.30	20	
Dibromomethane	42.0800	5.0	50.0000	ND	84.2	48 - 124	3.85	20	
Dichlorodifluoromethane	25.3400	5.0	50.0000	ND	50.7	0 - 150	0.394	20	
Ethyl Acetate	392.450	50	500.000	ND	78.5	0 - 140	7.60	20	
Ethyl Ether	434.290	50	500.000	ND	86.9	36 - 142	3.17	20	
Ethyl tert-butyl ether	43.9900	5.0	50.0000	ND	88.0	46 - 133	1.29	20	
Ethylbenzene	88.0400	5.0	100.000	ND	88.0	46 - 123	2.07	20	
Freon-113	30.0400	5.0	50.0000	ND	60.1	38 - 137	2.11	20	
Hexachlorobutadiene	38.4800	5.0	50.0000	ND	77.0	5 - 132	5.31	20	
Isopropylbenzene	44.8100	5.0	50.0000	ND	89.6	43 - 132	3.62	20	
m,p-Xylene	94.0100	10	100.000	ND	94.0	45 - 128	2.11	20	
Methylene chloride	38.8800	5.0	50.0000	ND	77.8	37 - 126	2.06	20	
MTBE	41.0700	5.0	50.0000	ND	82.1	46 - 125	1.76	20	
n-Butylbenzene	43.3500	5.0	50.0000	ND	86.7	24 - 138	5.58	20	
n-Propylbenzene	43.6400	5.0	50.0000	ND	87.3	40 - 133	4.44	20	
Naphthalene	43.9800	5.0	50.0000	ND	88.0	10 - 149	0.524	20	
o-Xylene	94.4300	5.0	100.000	ND	94.4	45 - 125	0.180	20	
sec-Butylbenzene	43.8800	5.0	50.0000	ND	87.8	33 - 136	4.19	20	
Styrene	48.3800	5.0	50.0000	ND	96.8	43 - 128	2.39	20	
tert-Amyl methyl ether	43.4200	5.0	50.0000	ND	86.8	35 - 147	3.57	20	
tert-Butanol	241.190	100	250.000	ND	96.5	0 - 208	5.31	20	
tert-Butylbenzene	45.0700	5.0	50.0000	ND	90.1	36 - 133	3.17	20	
Tetrachloroethene	44.7000	5.0	50.0000	ND	89.4	41 - 129	2.21	20	
Toluene	87.0200	5.0	100.000	ND	87.0	49 - 124	2.15	20	
trans-1,2-Dichloroethene	35.7100	5.0	50.0000	ND	71.4	44 - 126	3.22	20	
trans-1,3-Dichloropropene	44.6400	5.0	50.0000	ND	89.3	42 - 125	3.52	20	
Trichloroethene	43.1100	5.0	50.0000	ND	86.2	38 - 139	3.60	20	
Trichlorofluoromethane	35.6500	5.0	50.0000	ND	71.3	30 - 157	2.11	20	
Vinyl acetate	257.010	50	500.000	ND	51.4	0 - 132	15.5	20	
Vinyl chloride	30.9200	5.0	50.0000	ND	61.8	19 - 142	3.15	20	
Surrogate: 1,2-Dichloroethane-d4	*53.88*		*50.0000*		*108*	*20 - 189*			
Surrogate: 4-Bromofluorobenzene	*52.54*		*50.0000*		*105*	*20 - 173*			
Surrogate: Dibromofluoromethane	*52.42*		*50.0000*		*105*	*26 - 178*			
Surrogate: Toluene-d8	*53.32*		*50.0000*		*107*	*31 - 166*			

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/20/2015

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
M7	Matrix spike was high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.
M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L3	Laboratory control sample outside in-house established limits but within method criteria.
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)
TX1	TX-NELAP (TCEQ)

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.

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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages	**8**
Date Received	**04/02/2015**
Date Reported	**04/03/2015**

Job Number	Order Date	Client
76492	04/02/2015	ATL

Project ID: 1501180
Project Name: PO# SC09482

Enclosed please find results of analyses of 2 water and 15 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Project ID: 1501180
Date Received 04/02/2015
Date Reported 04/03/2015

Job Number	Order Date	Client
76492	04/02/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 17 samples with the following specification on 04/02/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76492.05	1501180-33	03/31/2015	Aqueous	1
76492.17	1501180-CC	03/31/2015	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ AS	04/09/2015	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76492.01	1501180-07	03/31/2015	Soil	1
76492.02	1501180-13	03/31/2015	Soil	1
76492.03	1501180-20	03/31/2015	Soil	1
76492.06	1501180-64	03/31/2015	Soil	1
76492.07	1501180-76	03/31/2015	Soil	1
76492.08	1501180-82	03/31/2015	Soil	1
76492.09	1501180-94	03/31/2015	Soil	1
76492.10	1501180-AA	03/31/2015	Soil	1
76492.11	1501180-AG	03/31/2015	Soil	1
76492.12	1501180-AS	03/31/2015	Soil	1
76492.13	1501180-AY	03/31/2015	Soil	1
76492.14	1501180-BE	03/31/2015	Soil	1
76492.16	1501180-BT	03/31/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/03/2015	2	Rush	mg/Kg

76492.04	1501180-32	03/31/2015	Soil	1
76492.15	1501180-BK	03/31/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/09/2015	2	Normal	mg/Kg

Continued

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Ordered By

Advanced Technology Laboratories **3275 Walnut Avenue** **Signal Hill, CA 90755-5225**	**Project ID: 1501180** **Date Received 04/02/2015** **Date Reported 04/03/2015**

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76492	04/02/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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ANALYTICAL RESULTS

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Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			04/03/2015				
Preparation Method			3050B				
Date Analyzed			04/03/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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ANALYTICAL RESULTS

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Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 3

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1

Our Lab I.D.			76492.01	76492.02	76492.03	76492.04	76492.06
Client Sample I.D.			1501180-07	1501180-13	1501180-20	1501180-32	1501180-64
Date Sampled			03/31/2015	03/31/2015	03/31/2015	03/31/2015	03/31/2015
Date Prepared			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			5	5	5	5	5
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.25	0.50	1.97	2.03	4.43	1.92	2.01

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ANALYTICAL RESULTS

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Page: **4**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1

Our Lab I.D.			76492.07	76492.08	76492.09	76492.10	76492.11
Client Sample I.D.			1501180-76	1501180-82	1501180-94	1501180-AA	1501180-AG
Date Sampled			03/31/2015	03/31/2015	03/31/2015	03/31/2015	03/31/2015
Date Prepared			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			5	5	5	5	5
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.25	0.50	1.80	2.21	1.68	2.43	3.17

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ANALYTICAL RESULTS

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Telephone: (562)989-4045
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Page: **5**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1

Our Lab I.D.			76492.12	76492.13	76492.14	76492.15	76492.16
Client Sample I.D.			1501180-AS	1501180-AY	1501180-BE	1501180-BK	1501180-BT
Date Sampled			03/31/2015	03/31/2015	03/31/2015	03/31/2015	03/31/2015
Date Prepared			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			5	5	5	5	5
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.25	0.50	2.06	4.59	4.25	11.9	2.31

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

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 6

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0403151C3

Our Lab I.D.			Method Blank	76492.05	76492.17		
Client Sample I.D.				1501180-33	1501180-CC		
Date Sampled				03/31/2015	03/31/2015		
Date Prepared			04/03/2015	04/03/2015	04/03/2015		
Preparation Method			3005A	3005A	3005A		
Date Analyzed			04/03/2015	04/03/2015	04/03/2015		
Matrix			Aqueous	Aqueous	Aqueous		
Units			mg/L	mg/L	mg/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.0025	0.0250	ND	ND	ND		

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QUALITY CONTROL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **7**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0403151C3; Dup or Spiked Sample: 76492.05; LCS: Clean Water; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	0.00	0.0100	0.0102	102	0.0100	0.0102	102	<1	75-125	<15

QC Batch No: 0403151C3; Dup or Spiked Sample: 76492.05; LCS: Clean Water; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	0.0100	0.00999	99.9	0.0100	0.0100	100	<1	75-125	<15	

American Environmental Testing Laboratory Inc.
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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

QUALITY CONTROL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 8

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1; Dup or Spiked Sample: 76492.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.97	5.00	7.92	119	5.00	7.67	114	4.29	80-120	<15

QC Batch No: 0403151C1; Dup or Spiked Sample: 76492.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.827	82.7	1.00	0.818	81.8	1.09	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

American Environmental Testing Laboratory Inc.
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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76492

SUBCONTRACT ORDER

Work Order: 1501180

SENDING LABORATORY:	**RECEIVING LABORATORY:**
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09482-RUSH TAT (RA)

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501180-07 / BD26-E-0.5		Soil 76492.01	03/31/15 14:05	**PLEASE REPORT ARSENIC. SOME SAMPLES ARE STANDARD TAT PLEASE SEE DUE DATE INDICATED.**
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/27/15 14:05		~~76492.02~~ 20
ATL Lab#: 1501180-13 / BD26-S-0.5		Soil	03/31/15 13:55	76492.03
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/27/15 13:55		
ATL Lab#: 1501180-20 / BD25-N-0.5		Soil	03/31/15 14:30	76492.04
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/27/15 14:30		
ATL Lab#: 1501180-32 / DUP 6		Soil	03/31/15 00:00	76492.05
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/09/15 15:00**	09/27/15 00:00		
ATL Lab#: 1501180-33 / EQ BLANK		Water	03/31/15 ~~00:00~~ 15:18	76492.06
6020_SUB [Individual Metals by ICPMS] Poly HNO3 - 500mL	**04/09/15 15:00**	09/27/15 00:00		

Released By	Date	Received By	Date
	4/2/15 1408	Sarah P	4/2/15 1108
Sarah P	4/2/15	Juan Uande	04/02/15 1615

4/2/15

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

76492

Work Order: 1501180

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501180-64 / A9-0.5		**Soil**	**04/01/15 10:15**	76492.06
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 10:15		
ATL Lab#: 1501180-76 / BD4-E-0.5		**Soil**	**04/01/15 10:55**	76492.07
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 10:55		
ATL Lab#: 1501180-82 / BD4-W-0.5		**Soil**	**04/01/15 11:11**	76492.08
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 11:11		
ATL Lab#: 1501180-94 / C9-0.5		**Soil**	**04/01/15 11:50**	76492.09
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 11:50		
ATL Lab#: 1501180-AA / C8-0.5		**Soil**	**04/01/15 13:05**	76492.10
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 13:05		
ATL Lab#: 1501180-AG / D8-0.5		**Soil**	**04/01/15 13:15**	76492.11
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 13:15		
ATL Lab#: 1501180-AS / BD27-E-0.5		**Soil**	**04/01/15 14:00**	76492.12
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 14:00		

Released By	Date	Received By	Date
	4/2/15 1402	Sarah P	4/2/15 1408
Sarah P	4/2/15	Jean Laude	04/02/15 1615

ADVANCED TECHNOLOGY LABORATORIES

76492

SUBCONTRACT ORDER

Work Order: 1501180

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501180-AY / E9-0.5		**Soil**	**04/01/15 14:30**	76492.13
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 14:30		
ATL Lab#: 1501180-BE / D9-0.5		**Soil**	**04/01/15 14:09**	76492.14
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 14:09		
ATL Lab#: 1501180-BK / DUP 7		**Soil**	**04/01/15 00:00**	76492.15
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/09/15 15:00**	09/28/15 00:00		
ATL Lab#: 1501180-BT / PS1-0.5		**Soil**	**04/01/15 16:15**	76492.16
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 16:15		
ATL Lab#: 1501180-CC / EQ Blank		**Water**	**04/01/15 17:56**	76492.17
6020_SUB [Individual Metals by ICPMS] Poly HNO3 - 500mL	**04/09/15 15:00**	09/28/15 17:56		

Released By	Date	Received By	Date
	4/2/15 1408		4/2/15 1408
	4/2/15		04/02/15 1615

ADVANCED TECHNOLOGY LABORATORIES
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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Ste 3250 | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Ste 3250
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: C. Wood
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis
Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister | Material: 1=Glass; 2=Plastic; 3=Metal | Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NH2SO3

ITEM	Lab No.	Sample ID / Location	Date	Time	TAT	#	Type	Material	Preservative	REMARKS
1	15U160 -1	BD2[illegible]-S-0.5	3/31/15	14:18	2	1	5	1		
2	2	BD2[illegible]-S-1								Hold
3	3	BD2[illegible]-S-1.5								
4	4	BD2[illegible]-S-2								
5	5	BD2[illegible]-S-2.5								
6	6	BD2[illegible]-S-3								
7	7	BD26-E-0.5		14:05	2	1	5	1		
8	8	BD26-E-1								Hold
9	9	BD26-E-1.5								
10	10	BD26-E-2								

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.

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

John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
[signature]	4/1/15	1755	[signature]	4/1/15	1755
[signature]	4/1/15	1850	FEDEX	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 6 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1	15080-50	BD1-E-2.5	4/1/15	09:00
2	51	" -3		↓
3	52	BD26-N-0.5		9815
4	53	" -1		
5	54	" -1.5		
6	55	" -2		
7	56	" -2.5		
8	57	" -3		↓
9	58	BD2-W-0.5		9:30
10	59	" -1	↓	↓

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO, (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	QA/QC: Routine / Caltrans / Legal / RWQCB Level IV	REMARKS
1							Hold
2							↓
3	5	1	C	1			
4							Hold
5							
6							
7							
8							↓
9							
10							Hold

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
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3. The following turnaround time conditions apply:
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   - 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.
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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.

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

John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1758		4/1/15	1755
	4/1/15	1850	FEDEX	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
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CHAIN OF CUSTODY RECORD

Page 2 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only			ATLCOC Ver:20130715
Method of Transport	Sample Conditions Upon Receipt		
	Condition	Y / N	Condition	Y / N
Client ATL	1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx OnTrac	2. HEADSPACE (VOA)		6. PRESERVED	
GSO	3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:	4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wiles
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Encircle or Write Requested Analysis: Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Encircle Sample Matrix: Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container: #	Container: Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container: Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NAZSO3	QA/QC: Routine / Caltrans / Legal / RWQCB Level IV	REMARKS
1	1050150-11	BD26E-2.5	3/31/15	14:05								LW	X										X											Hold
2	12	BD26E-3		↓																														↓
3	13	BD26-5-0.5		13:55									X	X															2	1	5	1		
4	14	BD26-5-1																																Hold
5	15	BD26-5-1.5																																
6	16	BD26-5-2																																
7	17	BD26-5-2.5																																
8	18	BD26-5-3		↓																														↓
9		~~BD24-E-0.5~~		13:25																														~~Hold~~
10	19	BD26-(NE,S)-0.5	↓	—											X														2	3	5	1		

TERMS

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John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1755		4/1/15	1755
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) FEDEX	Date: 4/1/15	Time: 1850
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 3 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only			ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt	
		Condition Y N	Condition Y N
Client / ATL		1. CHILLED	5. # OF SAMPLES MATCH COC
FedEx / OnTrac		2. HEADSPACE (VOA)	6. PRESERVED
GSO		3. CONTAINER INTACT	7. COOLER TEMP, deg C:
Other:		4. SEALED	

CUSTOMER

Company: TRC		Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400	
		City: Los Angeles	State: CA Zip: 90017	Fax:	
SEND REPORT TO:			SEND INVOICE TO:		same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com		Attn:	Email:	
Company: TRC			Company:		
Address: 707 Wilshire Blvd. Ste 3250			Address:		
City: Los Angeles	State: CA Zip: 90017		City:	State:	Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wiles
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis; Enter Custom Analysis

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample ID / Location	Date	Time	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1501180-10	BD25-N-0.5	3/31/15	14:30	2	1	S	1		
2	11	BD25-N-1								Hold
3	12	BD25-N-1.5								
4	13	BD25-N-2								
5	14	BD25-N-2.5								
6	15	BD25-N-3								
7	16	BD25-S-0.5		9:30	2	1	G	1		
8	17	BD25-S-1								Hold
9	18	BD25-S-1.5								
10	19	BD25-S-2								

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

TERMS

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John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1755		4/1/15	1755
ATL	4/1/15	1850	FEDEX	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 4 of 10

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715
Method of Transport		Sample Conditions Upon Receipt		
		Condition	Y / N	Condition	Y / N
Client / ATL		1. CHILLED		5. # OF SAMPLES MATCH COC	
FedEx / OnTrac		2. HEADSPACE (VOA)		6. PRESERVED	
GSO		3. CONTAINER INTACT		7. COOLER TEMP, deg C:	
Other:		4. SEALED			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:	SEND INVOICE TO: same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Ste 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wicks
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	Soil	TAT	Container #	Container Type	Container Material	QA/QC	REMARKS
1	15070614-20	BD25-5-2.5	3/31/15	9:30										
2	21	BD25-5-3		↓										
3	22	Dup 6		—	X			X	5	1	5	1		
4	23	~~FB~~ EQ Blank		15:18	X	X	X		5	2	3/A	1/2		
5	24	BD23W-0.5		13:45		X		X	2	1	5	1		
6	25	BD23-W-1												Hold
7	26	BD23-W-1.5												
8	27	BD23-W-2												
9	28	BD23-W-2.5												
10	29	BD23-W-3		↓										↓

Encircle or Write Requested Analysis: Select Analysis ×6; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis ×4

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

Container — Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister. Material: 1=Glass; 2=Plastic; 3=Metal. Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine / Caltrans / Legal / RWQCB Level IV

TERMS

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   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
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10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction procedure.
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John Gonzales — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1755		4/1/15	1755
	4/1/15	1850	Fedex	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES
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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 5 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax:

SEND REPORT TO:		SEND INVOICE TO:	same as SEND REPORT TO
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn:	Email:
Company: TRC		Company:	
Address: 707 Wilshire Blvd. Ste 3250		Address:	
City: Los Angeles	State: CA Zip: 90017	City:	State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wing
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis; Arsenic (6020); Lead (6010B); OCPs (8081A); TPH GRO, DRO, ORO (8015M); VOC's and Oxygenates (8260); VOC's (8260); Enter Custom Analysis; Enter Custom Matrix

Encircle Sample Matrix: Soil; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

TAT

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister | Material: 1=Glass; 2=Plastic; 3=Metal

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	Arsenic (6020)	Lead (6010B)	Soil	TAT	#	Type	Material	REMARKS
1	190160 - 40	BD2-E-0.5	9/1/15	8:41		X	X	S	1	5	1	
2	41	" - 1										Hold
3	42	" - 1.5										
4	43	" - 2										
5	44	" - 2.5										
6	45	" - 3		↓								↓
7	46	BD1-E-0.5		9:00		X	X	S	1	5	1	
8	47	" - 1										Hold
9	48	" - 1.5										
10	↓ 49	" - 2	↓	↓								↓

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John Gonzales — Submitter Print Name

Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
1		9/1/15	1755	FPOWN	9/1/15	1755
2		9/1/15	1850		9/1/15	1852
3						

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 7 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver:20130715			
Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
Client	ATL	1. CHILLED			5. # OF SAMPLES MATCH COC		
FedEx	OnTrac	2. HEADSPACE (VOA)			6. PRESERVED		
GSO		3. CONTAINER INTACT			7. COOLER TEMP, deg C:		
Other:		4. SEALED					

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Ste 3250		Tel: (213) 213-9400
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SEND REPORT TO:		SEND INVOICE TO:	same as SEND REPORT TO
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Company: TRC		Company:	
Address: 707 Wilshire Blvd. Ste 3250		Address:	
City: Los Angeles	State: CA Zip: 90017	City:	State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058.0000.0004
Sampler: L. Wes
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Encircle or Write Requested Analysis: Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Arsenic (6020)	Lead (6010B)	OCPs (8081A)	TPH GRO, DRO, ORO (8015M)	VOC's and Oxygenates (8260)	VOC's (8260)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Encircle Sample Matrix: Soil	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NAS2O3	REMARKS
1	150180-60	BD2-W-1.5	4/1/15	9:30																														Hold
2	61	" - 2																																
3	62	" - 2.5																																
4	63	" - 3																																
5	64	A9-0.5		10:15									X																2	1	5	1		
6	65	" - 1																																No Id
7	66	" - 1.5																																
8	67	" - 2																																
9	68	" - 2.5																																
10	69	" - 3																																

QA/QC: Routine; Caltrans; Legal; RWQCB Level IV

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1455	FPDiwa	4/1/15	1755
	4/1/15	1850		4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver: 20130715
Method of Transport	Sample Conditions Upon Receipt			
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: TRC | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email: B.Gonzales@trcs
Company:
Address: See Attached COC
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LIAUSD Foothill | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler: L.Gonzales

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead (6010B)	Arsenic (6020)	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1509180 - 70	BD4-N-0.5	4/1/15	10:30									X		X					8	1	5	1		
2	71	" - 1																							Hold
3	72	" - 1.5																							
4	73	" - 2																							
5	74	" - 2.5																							
6	75	" - 3		↓																					↓
7	76	BD4-E-0.5		10:55									X	X	X					2	1	5	1		
8	77	" - 1																							Hold
9	78	" - 1.5																							
10	79	" - 2	↓	↓																					↓

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

TERMS

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   - TAT = 1 : 100% Surcharge NEXT BUSINESS DAY (COB 5:00 PM)
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   - 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)
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   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

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

JG
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1755		4/1/15	1755
	4/1/15	1850	FEDEX	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 9 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

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

CUSTOMER

Company: TRC | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: Foshay LAUSD | Quote No: | Special Instructions/Comments:
Project No.: | PO #:
Sampler: C. Wong

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead (6010B)	Arsenic (6020)	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE/ FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1901160- 80	BD4-E-2.5	4/1/15	10:55																					Hold
2	81	" -3		↓																					↓
3	82	BD4-W-0.5		11:11									X	X	X					2	1	5	1		
4	83	" -1																							Hold
5	84	" -1.5																							
6	85	" -2																							
7	86	" -2.5																							
8	87	" -3		↓																					
9	88	BD4-S-0.5		11:37									X		X					2	1	5	1		
10	89	" -1	↓	↓																					Hold

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3
Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Ziedlar; 7 = Canister
Material: 1=Glass; 2=Plastic; 3=Metal

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.
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   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
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As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name | Signature

CUSTODY

	Date	Time		Date	Time
Relinquished by: (Signature and Printed Name)	4/1/15	1900	Received by: (Signature and Printed Name)	4/1/15	1745
Relinquished by: (Signature and Printed Name)	4/1/15	1850	Received by: (Signature and Printed Name)	4/1/15	1850
Relinquished by: (Signature and Printed Name)			Received by: (Signature and Printed Name)		

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 10 of 10

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver: 20130715
Method of Transport	Sample Conditions Upon Receipt			
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other: _____	4. SEALED	☐	☐			

CUSTOMER

Company: TRC | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LACSD Postex
Project No.:
Sampler: L. Wicks
Quote No:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Lead (6010B); Arsenic (6020)

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE/ FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

TAT | Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Teflar; 7 = Canister | Material: 1=Glass; 2=Plastic; 3=Metal | Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	8260	8015(GRO)	8015(DRO)	8270	8081	8082	6010/7000	TO-15	Lead (6010B)	Arsenic (6020)	SOIL	SOLIDS	WATER - DRINKING	WATER - STORM	AQUEOUS	TAT	#	Type	Material	Preservative	REMARKS
1	1001580-06	BD4-S-1.5	4/1/15	11:37																					Hold
2	07	" - 2																							
3	08	" - 2.5																							
4	09	" - 3																							
5	10	C9 - 0.5		11:50										X						2	1	5	1		
6	11	" - 1																							Hold
7	12	" - 1.5																							
8	13	" - 2																							
9	14	" - 2.5																							
10	15	" - 3																							

TERMS

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Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1755		4/1/15	1755
	4/1/15	1850	FPOWER	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

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

CUSTOMER

Company: TRC | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.:
Sampler: C. Wise
Quote No:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead (6010B)	Arsenic (6020)	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	QA/QC / REMARKS
1	1911180 - AA	CS - 0.5	4/1/15	13:05										X						2	1	5	1		
2	AB	" - 1																							Hold
3	AC	" - 1.5																							
4	AD	" - 2																							
5	AE	" - 2.5																							
6	AF	" - 3																							
7	AG	DS - 0.5		13:15										X						2	1	5	1		
8	AH	" - 1																							Hold
9	AI	" - 1.5																							
10	AJ	" - 2																							

TERMS

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Submitter Print Name | Signature

CUSTODY

	Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
1		4/1/15	755		4/1/15	1725
2	ATL	4/1/15	1850	PRADIA	4/6/15	850
3		Date:	Time:		Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 12 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport: ☐ Client ☐ ATL ☐ FedEx ☐ OnTrac ☐ GSO ☐ Other:

Sample Conditions Upon Receipt

Condition	Y	N	Condition	Y	N
1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
2. HEADSPACE (V0A)	☐	☐	6. PRESERVED	☐	☐
3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
4. SEALED	☐	☐			

CUSTOMER

Company: TRC | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.:
Sampler: L Wiens
Quote No:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Lead (6010B); Arsenic (6020); OCP's (8081A)

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

Container: TAT; # ; Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister; Material: 1=Glass; 2=Plastic; 3=Metal; Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

ITEM	Lab No.	Sample ID / Location	Date	Time	8260	8015(GRO)	8015(DRO)	8270	8081	8082	6010	TO-15	Lead	Arsenic	OCP's	SOIL	SOLIDS	WATER - DRINKING	WATER - STORM	AQUEOUS	TAT	#	Type	Material	Preservative	REMARKS
1	1901187-AK	D8-2.5	4/1/15	13:15																						Hold
2	AL	" -3		↓																						↓
3	AM	BD27-N-0.5		13:45								X									2	1	5	1		
4	AN	" -1																								Hold
5	AO	" -1.5																								
6	AP	" -2																								
7	AQ	" -2.5																								
8	AR	" -3		↓																						↓
9	AS	BD27-E-0.5		14:00								X	X								2	1	5	1		
10	AT	" -1	↓	↓																						Hold

TERMS

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Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1755		4/1/15	1755
	4/1/15	1850	FPOWA	4/6/15	1050
	Date:	Time:		Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

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

CUSTOMER

Company: TRC | Address: | Tel:

City: | State: | Zip: | Fax:

SEND REPORT TO:

Attn: | Email:

Company:

Address:

City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO

Attn: | Email:

Company:

Address:

City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay | Quote No: | Special Instructions/Comments:

Project No.: | PO #:

Sampler: C. Wray

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead (6010B)	Arsenic (6020)	OCP's (8081A)	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1501180- AU	BD27-E-1.5	4/1/15	14:00																						2760A
2	AV	" - 2																								"
3	AW	" - 2.5																								"
4	AX	" - 3		↓																						↓
5	AY	E9-0.5		14:30										X		X					2	1	5	1		
6	AZ	" - 1																								Hold
7	BA	" - 1.5																								
8	BB	" - 2																								
9	BC	" - 2.5																								
10	BD	" - 3	↓	↓																						↓

Encircle or Write Requested Analysis | Encircle Sample Matrix | Container | QA/QC

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister | Material: 1=Glass; 2=Plastic; 3=Metal

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   - 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 fi ve (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-fi ve (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/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

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

Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/	1745		4/1/15	1755
	4/1/15	1850	FEDEX	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver: 20130715
Method of Transport	Sample Conditions Upon Receipt			
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: TRC | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.:
Sampler: L. Wo
Quote No:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead (6010B)	Arsenic (6020)	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container #	Container Type	Container Material	Preservative	REMARKS
1	1901[illegible] - BE	D9 - 0.5	4/1/15	14:09										X	X					2	1	5	1		
2	BF	" - 1																							Hold
3	BG	" - 1.5																							
4	BH	" - 2																							
5	BI	" - 2.5																							
6	BJ	" - 3																							
7	BK	Dup 7												X	X					5	1	5	1		
8	BL	BDW-EB-0.5		15:15									X		X					2	1	5	1		
9	BM	" - 1																							Hold
10	BN	" - 1.5																							

Encircle or Write Requested Analysis
Encircle Sample Matrix
Container
QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
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   - 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)
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   - 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/reforma? ed report; $35 per reprocessed EDD.
10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

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

Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1755		4/1/15	1755
ATL	4/1/15	1940	FEDEX	4/1/15	1955
	Date:	Time:		Date:	Time:

ADVANCED TECHNOLOGY LABORATORIES

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CHAIN OF CUSTODY RECORD

Page 15 of 16

Instruction: Complete all shaded areas.

For Laboratory Use Only				ATLCOC Ver: 20130715
Method of Transport	Sample Conditions Upon Receipt			
	Condition	Y	N	Condition	Y	N
☐ Client ☐ ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐ FedEx ☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐ GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐ Other:	4. SEALED	☐	☐			

CUSTOMER

Company: TRC | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.:
Sampler: L. Wics
Quote No:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: 8260 / 624 (Volatiles); 8015(GRO); 8015(DRO); 8270(Semi-volatiles); 8081(Organochlorine Pesticides); 8082(PCBs); 6010 / 7000(Title 22 Metals); TO-15; Lead (6010B); Arsenic (6020); OCP's (8081A)

Encircle Sample Matrix: SOIL / SEDIMENT / SLUDGE; SOLIDS / WIPE / FILTER; WATER - DRINKING / GROUND; WATER - STORM / WASTE; AQUEOUS / LAYERED - OIL

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	TAT	Container: #	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1504480-BO	BD15-Ed-2	4/1/15	15:15						Hold
2	BP	BD15-Ea-0.5		15:30	X	X	2	1	5	1		
3	BQ	" -1										Hold
4	BR	" -1.5										
5	BS	" -2										
6	BT	PS1-0.5		16:15	X		2	1	5	1		
7	BU	" -1										Hold
8	BV	" 1.5										
9	BW	" 2										
10	BX	" 2.5										

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

TERMS

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   - TAT = 2 : 50% Surcharge 2ND BUSINESS DAY (COB 5:00 PM)
   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
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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:
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   - Hard copy and regenerated reports/EDDs: $17.50 per hard copy report requested; $50.00 per regenerated/reformat ed report; $35 per reprocessed EDD.
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As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1955		4/1/15	1955
	4/1/15	1840	FEDEX	4/1/15	1850

ADVANCED TECHNOLOGY LABORATORIES
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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

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

CUSTOMER

Company: TRC | Address: | Tel:
City: | State: | Zip: | Fax:

SEND REPORT TO:
Attn: | Email:
Company:
Address:
City: | State: | Zip:

SEND INVOICE TO: ☐ same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.:
Sampler: C. Wise
Quote No:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	8260 / 624 (Volatiles)	8015(GRO)	8015(DRO)	8270(Semi-volatiles)	8081(Organochlorine Pesticides)	8082(PCBs)	6010 / 7000(Title 22 Metals)	TO-15	Lead (6010B)	Arsenic (6020)	OCPs (8081A)	VOCs (8260)	SOIL / SEDIMENT / SLUDGE	SOLIDS / WIPE / FILTER	WATER - DRINKING / GROUND	WATER - STORM / WASTE	AQUEOUS / LAYERED - OIL	TAT	Container: #	Container: Type	Container: Material	Preservative	REMARKS
1	1501150 BZ	PS1 – 3	4/1/15	16:15																							Hold
2	BZ	PS1 – 3'														X	X					2	3	1	2		
3	BZ CA	PS1 – 6'																									Hold
4	CA CB	PS1 – 9'																									↓
5	CB CC	PS1 – 12		↓																							
6	CC CD	EQ Blank		17:56									X	X	X	X						J	2	T/A	1/2		
7																M											
8																											
9																											
10																											

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

Container: # | Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7= Canister | Material: 1=Glass; 2=Plastic; 3=Metal

TERMS

1. Sample receiving hours: 7:30 AM to 7:30 PM Monday - Friday; Saturday 8:00 AM to 12:00 PM.
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   - TAT = 3 : 30% Surcharge 3RD BUSINESS DAY (COB 5:00 PM)
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10. Rush TCLP/STLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of $7 per sample.

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

Submitter Print Name _____ Signature _____

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4/1/15	1753		4/1/15	1755
	4/1/15	1850	FP Duran	4/1/15	1850

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

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages	**8**
Date Received	**04/02/2015**
Date Reported	**04/03/2015**

Job Number	Order Date	Client
76492	04/02/2015	ATL

Project ID: 1501180
Project Name: PO# SC09482

Enclosed please find results of analyses of 2 water and 15 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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Ordered By

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Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Project ID: 1501180
Date Received 04/02/2015
Date Reported 04/03/2015

Job Number	Order Date	Client
76492	04/02/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 17 samples with the following specification on 04/02/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76492.05	1501180-33	03/31/2015	Aqueous	1
76492.17	1501180-CC	04/01/2015	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ AS	04/09/2015	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76492.01	1501180-07	03/31/2015	Soil	1
76492.02	1501180-13	03/31/2015	Soil	1
76492.03	1501180-20	03/31/2015	Soil	1
76492.06	1501180-64	04/01/2015	Soil	1
76492.07	1501180-76	04/01/2015	Soil	1
76492.08	1501180-82	04/01/2015	Soil	1
76492.09	1501180-94	04/01/2015	Soil	1
76492.10	1501180-AA	04/01/2015	Soil	1
76492.11	1501180-AG	04/01/2015	Soil	1
76492.12	1501180-AS	04/01/2015	Soil	1
76492.13	1501180-AY	04/01/2015	Soil	1
76492.14	1501180-BE	04/01/2015	Soil	1
76492.16	1501180-BT	04/01/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/03/2015	2	Rush	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76492.04	1501180-32	03/31/2015	Soil	1
76492.15	1501180-BK	04/01/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/09/2015	2	Normal	mg/Kg

Continued

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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Project ID: 1501180
Date Received 04/02/2015
Date Reported 04/03/2015

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76492	04/02/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			04/03/2015				
Preparation Method			3050B				
Date Analyzed			04/03/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **3**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1

Our Lab I.D.			76492.01	76492.02	76492.03	76492.04	76492.06
Client Sample I.D.			1501180-07	1501180-13	1501180-20	1501180-32	1501180-64
Date Sampled			03/31/2015	03/31/2015	03/31/2015	03/31/2015	04/01/2015
Date Prepared			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			5	5	5	5	5
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.25	0.50	1.97	2.03	4.43	1.92	2.01

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ANALYTICAL RESULTS

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Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **4**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1

Our Lab I.D.			76492.07	76492.08	76492.09	76492.10	76492.11
Client Sample I.D.			1501180-76	1501180-82	1501180-94	1501180-AA	1501180-AG
Date Sampled			04/01/2015	04/01/2015	04/01/2015	04/01/2015	04/01/2015
Date Prepared			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			5	5	5	5	5
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.25	0.50	1.80	2.21	1.68	2.43	3.17

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **5**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1

Our Lab I.D.			76492.12	76492.13	76492.14	76492.15	76492.16
Client Sample I.D.			1501180-AS	1501180-AY	1501180-BE	1501180-BK	1501180-BT
Date Sampled			04/01/2015	04/01/2015	04/01/2015	04/01/2015	04/01/2015
Date Prepared			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			04/03/2015	04/03/2015	04/03/2015	04/03/2015	04/03/2015
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			5	5	5	5	5
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.25	0.50	2.06	4.59	4.25	11.9	2.31

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 6

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0403151C3

Our Lab I.D.			Method Blank	76492.05	76492.17		
Client Sample I.D.				1501180-33	1501180-CC		
Date Sampled				03/31/2015	04/01/2015		
Date Prepared			04/03/2015	04/03/2015	04/03/2015		
Preparation Method			3005A	3005A	3005A		
Date Analyzed			04/03/2015	04/03/2015	04/03/2015		
Matrix			Aqueous	Aqueous	Aqueous		
Units			mg/L	mg/L	mg/L		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.0025	0.0250	ND	ND	ND		

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QUALITY CONTROL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **7**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0403151C3; Dup or Spiked Sample: 76492.05; LCS: Clean Water; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	0.00	0.0100	0.0102	102	0.0100	0.0102	102	<1	75-125	<15

QC Batch No: 0403151C3; Dup or Spiked Sample: 76492.05; LCS: Clean Water; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	0.0100	0.00999	99.9	0.0100	0.0100	100	<1	75-125		

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QUALITY CONTROL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **8**

Project ID: 1501180
Project Name: PO# SC09482

AETL Job Number	Submitted	Client
76492	04/02/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0403151C1; Dup or Spiked Sample: 76492.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	1.97	5.00	7.92	119	5.00	7.67	114	4.29	80-120	<15

QC Batch No: 0403151C1; Dup or Spiked Sample: 76492.01; LCS: Clean Sand; QC Prepared: 04/03/2015; QC Analyzed: 04/03/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	0.827	82.7	1.00	0.818	81.8	1.09	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76492

SUBCONTRACT ORDER

Work Order: 1501180

SENDING LABORATORY:

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Phone: 562.989.4045
Fax: 562.989.6348
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)

RECEIVING LABORATORY:

AETL
2834 North Naomi Street
Burbank, CA 91504
Phone :(818) 845-8200
Fax: (818) 845-8840
PO#: SC09482-RUSH TAT (RA)

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501180-07 / BD26-E-0.5		Soil 76492.01	03/31/15 14:05	**PLEASE REPORT ARSENIC. SOME SAMPLES ARE STANDARD TAT PLEASE SEE DUE DATE INDICATED.**
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/27/15 14:05		~~76492.02~~ 20
ATL Lab#: 1501180-13 / BD26-S-0.5		Soil	03/31/15 13:55	76492.03
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/27/15 13:55		
ATL Lab#: 1501180-20 / BD25-N-0.5		Soil	03/31/15 14:30	76492.04
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/27/15 14:30		
ATL Lab#: 1501180-32 / DUP 6		Soil	03/31/15 00:00	76492.05
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/09/15 15:00**	09/27/15 00:00		
ATL Lab#: 1501180-33 / EQ BLANK		Water	03/31/15 ~~00:00~~ 15:18	76492.06
6020_SUB [Individual Metals by ICPMS] Poly HNO3 - 500mL	**04/09/15 15:00**	09/27/15 00:00		

Released By	Date	Received By	Date
[signature]	4/2/15 1408	[signature]	4/2/15 1408
[signature]	4/2/15	[signature]	04/02/15 1615

6 4/2/15

ADVANCED TECHNOLOGY LABORATORIES

SUBCONTRACT ORDER

76492

Work Order: 1501180

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501180-64 / A9-0.5		**Soil**	**04/01/15 10:15**	76492.06
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 10:15		
ATL Lab#: 1501180-76 / BD4-E-0.5		**Soil**	**04/01/15 10:55**	76492.07
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 10:55		
ATL Lab#: 1501180-82 / BD4-W-0.5		**Soil**	**04/01/15 11:11**	76492.08
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 11:11		
ATL Lab#: 1501180-94 / C9-0.5		**Soil**	**04/01/15 11:50**	76492.09
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 11:50		
ATL Lab#: 1501180-AA / C8-0.5		**Soil**	**04/01/15 13:05**	76492.10
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 13:05		
ATL Lab#: 1501180-AG / D8-0.5		**Soil**	**04/01/15 13:15**	76492.11
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 13:15		
ATL Lab#: 1501180-AS / BD27-E-0.5		**Soil**	**04/01/15 14:00**	76492.12
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 14:00		

Released By	Date	Received By	Date
[signature]	4/2/15 1405	[signature]	4/2/15 1408
[signature]	4/2/15	[signature]	04/02/15 1615

ADVANCED TECHNOLOGY LABORATORIES

76492

SUBCONTRACT ORDER

Work Order: 1501180

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501180-AY / E9-0.5		**Soil**	**04/01/15 14:30**	76492.13
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 14:30		
ATL Lab#: 1501180-BE / D9-0.5		**Soil**	**04/01/15 14:09**	76492.14
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 14:09		
ATL Lab#: 1501180-BK / DUP 7		**Soil**	**04/01/15 00:00**	76492.15
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/09/15 15:00**	09/28/15 00:00		
ATL Lab#: 1501180-BT / PS1-0.5		**Soil**	**04/01/15 16:15**	76492.16
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/03/15 15:00**	09/28/15 16:15		
ATL Lab#: 1501180-CC / EQ Blank		**Water**	**04/01/15 17:56**	76492.17
6020_SUB [Individual Metals by ICPMS] Poly HNO3 - 500mL	**04/09/15 15:00**	09/28/15 17:56		

Released By	Date	Received By	Date
	4/2/15 1408		4/2/15 1408
	4/2/15		04/02/15 1615

ADVANCED TECHNOLOGY LABORATORIES

April 29, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501180
Client Reference : LAUSD Foshay, 231058.0000.0004

Enclosed are the results for sample(s) received on April 01, 2015 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,



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

TRC		Project Number :	LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/29/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD15-Eb-0.5	1501180-BL	Soil	4/01/15 15:15	4/01/15 17:55
BD15-Ea-0.5	1501180-BP	Soil	4/01/15 15:30	4/01/15 17:55

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Client Sample ID BD15-Eb-0.5
Lab ID: 1501180-BL

Organochlorine Pesticides by EPA 8081 **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
4,4´-DDE	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
4,4´-DDT [2C]	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Aldrin	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
alpha-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
alpha-Chlordane [2C]	**15**	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
beta-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Chlordane	**130**	8.5	1	B5D0785	04/27/2015	04/28/15 15:30	H4
delta-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Dieldrin [2C]	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Endosulfan I	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Endosulfan II	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Endosulfan sulfate	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Endrin	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Endrin aldehyde	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Endrin ketone	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
gamma-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
gamma-Chlordane	**7.9**	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Heptachlor	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Heptachlor epoxide	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Methoxychlor	ND	5.0	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Toxaphene	ND	50	1	B5D0785	04/27/2015	04/28/15 15:30	H4
Surrogate: Decachlorobiphenyl	*68.3 %*	*16 - 137*		B5D0785	04/27/2015	*04/28/15 15:30*	H4
Surrogate: Tetrachloro-m-xylene	*62.3 %*	*16 - 105*		B5D0785	04/27/2015	*04/28/15 15:30*	H4

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Client Sample ID BD15-Ea-0.5
Lab ID: 1501180-BP

Organochlorine Pesticides by EPA 8081 — **Analyst: CL**

Analyte	Result (ug/kg)	PQL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4´-DDD	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
4,4´-DDE [2C]	**9.5**	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
4,4´-DDT [2C]	**5.7**	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Aldrin	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
alpha-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
alpha-Chlordane [2C]	**4.4**	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
beta-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Chlordane [2C]	**33**	8.5	1	B5D0785	04/27/2015	04/28/15 15:41	H4
delta-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Dieldrin [2C]	**11**	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Endosulfan I	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Endosulfan II	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Endosulfan sulfate	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Endrin	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Endrin aldehyde	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Endrin ketone	ND	2.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
gamma-BHC	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
gamma-Chlordane [2C]	**2.3**	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Heptachlor	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Heptachlor epoxide [2C]	ND	1.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Methoxychlor	ND	5.0	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Toxaphene	ND	50	1	B5D0785	04/27/2015	04/28/15 15:41	H4
Surrogate: Decachlorobiphenyl	*62.7 %*	*16 - 137*		B5D0785	04/27/2015	*04/28/15 15:41*	H4
Surrogate: Tetrachloro-m-xylene	*58.1 %*	*16 - 105*		B5D0785	04/27/2015	*04/28/15 15:41*	H4

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

QUALITY CONTROL SECTION

Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S									
Blank (B5D0785-BLK1)					Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	ND	2.0			NR				
4,4´-DDD [2C]	ND	2.0			NR				
4,4´-DDE	ND	2.0			NR				
4,4´-DDE [2C]	ND	2.0			NR				
4,4´-DDT	ND	2.0			NR				
4,4´-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				
Methoxychlor [2C]	ND	5.0			NR				
Toxaphene	ND	50			NR				

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Blank (B5D0785-BLK1) - Continued					Prepared: 4/27/2015 Analyzed: 4/28/2015				
Toxaphene [2C]	ND	50			NR				
Surrogate: Decachlorobiphenyl	*12.52*		*16.6667*		*75.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.48*		*16.6667*		*74.9*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*11.73*		*16.6667*		*70.4*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.32*		*16.6667*		*73.9*	*16 - 105*			
LCS (B5D0785-BS1)					Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	12.2823	2.0	16.6667		73.7	58 - 100			
4,4´-DDD [2C]	13.2338	2.0	16.6667		79.4	58 - 100			
4,4´-DDE	13.2527	2.0	16.6667		79.5	65 - 99			
4,4´-DDE [2C]	14.5647	2.0	16.6667		87.4	65 - 99			
4,4´-DDT	12.9388	2.0	16.6667		77.6	39 - 116			
4,4´-DDT [2C]	13.3073	2.0	16.6667		79.8	39 - 116			
Aldrin	13.1247	1.0	16.6667		78.7	57 - 94			
Aldrin [2C]	14.2317	1.0	16.6667		85.4	57 - 94			
alpha-BHC	12.6392	1.0	16.6667		75.8	58 - 84			
alpha-BHC [2C]	13.4348	1.0	16.6667		80.6	58 - 84			
alpha-Chlordane	13.0558	1.0	16.6667		78.3	58 - 96			
alpha-Chlordane [2C]	14.3997	1.0	16.6667		86.4	58 - 96			
beta-BHC	12.3513	1.0	16.6667		74.1	58 - 87			
beta-BHC [2C]	12.9830	1.0	16.6667		77.9	58 - 87			
delta-BHC	10.9262	1.0	16.6667		65.6	18 - 75			
delta-BHC [2C]	11.8518	1.0	16.6667		71.1	18 - 75			
Dieldrin	12.8687	2.0	16.6667		77.2	62 - 94			
Dieldrin [2C]	13.6657	2.0	16.6667		82.0	62 - 94			
Endosulfan I	12.1718	1.0	16.6667		73.0	58 - 90			
Endosulfan I [2C]	13.2620	1.0	16.6667		79.6	58 - 90			
Endosulfan II	12.5407	2.0	16.6667		75.2	63 - 95			
Endosulfan II [2C]	13.3653	2.0	16.6667		80.2	63 - 95			
Endosulfan sulfate	15.4275	2.0	16.6667		92.6	59 - 89			L3
Endosulfan Sulfate [2C]	15.9425	2.0	16.6667		95.7	59 - 89			L3
Endrin	13.0420	2.0	16.6667		78.3	64 - 96			
Endrin [2C]	13.8798	2.0	16.6667		83.3	64 - 96			
Endrin aldehyde	12.3023	2.0	16.6667		73.8	65 - 95			
Endrin aldehyde [2C]	13.6278	2.0	16.6667		81.8	65 - 95			
Endrin ketone	13.2750	2.0	16.6667		79.6	59 - 101			
Endrin ketone [2C]	13.4763	2.0	16.6667		80.9	59 - 101			
gamma-BHC	12.9680	1.0	16.6667		77.8	63 - 89			
gamma-BHC [2C]	13.9165	1.0	16.6667		83.5	63 - 89			
gamma-Chlordane	13.0585	1.0	16.6667		78.4	61 - 95			
gamma-Chlordane [2C]	14.2087	1.0	16.6667		85.3	61 - 95			
Heptachlor	13.2650	1.0	16.6667		79.6	65 - 102			
Heptachlor [2C]	13.2973	1.0	16.6667		79.8	65 - 102			
Heptachlor epoxide	13.2182	1.0	16.6667		79.3	61 - 95			
Heptachlor epoxide [2C]	14.2075	1.0	16.6667		85.2	61 - 95			
Methoxychlor	13.4980	5.0	16.6667		81.0	29 - 128			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
LCS (B5D0785-BS1) - Continued					Prepared: 4/27/2015 Analyzed: 4/28/2015				
Methoxychlor [2C]	12.2043	5.0	16.6667		73.2	29 - 128			
Surrogate: Decachlorobiphenyl	*12.84*		*16.6667*		*77.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.47*		*16.6667*		*74.8*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*11.94*		*16.6667*		*71.6*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.80*		*16.6667*		*76.8*	*16 - 105*			
Matrix Spike (B5D0785-MS1)		**Source: 1501463-40**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	12.3015	2.0	16.6667	ND	73.8	27 - 123			
4,4´-DDD [2C]	14.2982	2.0	16.6667	ND	85.8	27 - 123			
4,4´-DDE	12.8308	2.0	16.6667	ND	77.0	28 - 126			
4,4´-DDE [2C]	15.0872	2.0	16.6667	ND	90.5	28 - 126			
4,4´-DDT	11.8477	2.0	16.6667	ND	71.1	12 - 149			
4,4´-DDT [2C]	13.6248	2.0	16.6667	ND	81.7	12 - 149			
Aldrin	13.2435	1.0	16.6667	ND	79.5	29 - 116			
Aldrin [2C]	14.7005	1.0	16.6667	ND	88.2	29 - 116			
alpha-BHC	13.1175	1.0	16.6667	ND	78.7	27 - 104			
alpha-BHC [2C]	14.1573	1.0	16.6667	ND	84.9	27 - 104			
alpha-Chlordane	12.7583	1.0	16.6667	0.173333	75.5	14 - 130			
alpha-Chlordane [2C]	15.2790	1.0	16.6667	0.130833	90.9	14 - 130			
beta-BHC	12.9128	1.0	16.6667	ND	77.5	20 - 115			
beta-BHC [2C]	13.8870	1.0	16.6667	ND	83.3	20 - 115			
delta-BHC	11.4157	1.0	16.6667	ND	68.5	8 - 78			
delta-BHC [2C]	12.6747	1.0	16.6667	ND	76.0	8 - 78			
Dieldrin	11.4808	2.0	16.6667	ND	68.9	20 - 134			
Dieldrin [2C]	13.8702	2.0	16.6667	ND	83.2	20 - 134			
Endosulfan I	11.7803	1.0	16.6667	ND	70.7	27 - 114			
Endosulfan I [2C]	13.2933	1.0	16.6667	ND	79.8	27 - 114			
Endosulfan II	12.3170	2.0	16.6667	ND	73.9	16 - 125			
Endosulfan II [2C]	13.3293	2.0	16.6667	ND	80.0	16 - 125			
Endosulfan sulfate	14.6545	2.0	16.6667	ND	87.9	1 - 126			
Endosulfan Sulfate [2C]	16.0720	2.0	16.6667	ND	96.4	1 - 126			
Endrin	12.6308	2.0	16.6667	ND	75.8	33 - 122			
Endrin [2C]	14.1998	2.0	16.6667	ND	85.2	33 - 122			
Endrin aldehyde	11.5298	2.0	16.6667	ND	69.2	0 - 137			
Endrin aldehyde [2C]	12.0632	2.0	16.6667	ND	72.4	0 - 137			
Endrin ketone	13.0913	2.0	16.6667	ND	78.5	10 - 126			
Endrin ketone [2C]	13.6632	2.0	16.6667	ND	82.0	10 - 126			
gamma-BHC	13.4277	1.0	16.6667	ND	80.6	30 - 111			
gamma-BHC [2C]	14.7343	1.0	16.6667	ND	88.4	30 - 111			
gamma-Chlordane	13.0943	1.0	16.6667	0.138500	77.7	16 - 130			
gamma-Chlordane [2C]	14.8677	1.0	16.6667	0.109833	88.5	16 - 130			
Heptachlor	13.6425	1.0	16.6667	ND	81.9	34 - 127			
Heptachlor [2C]	14.6262	1.0	16.6667	ND	87.8	34 - 127			
Heptachlor epoxide	13.0295	1.0	16.6667	ND	78.2	19 - 130			
Heptachlor epoxide [2C]	14.4678	1.0	16.6667	ND	86.8	19 - 130			
Methoxychlor	14.3327	5.0	16.6667	ND	86.0	16 - 153			

Certificate of Analysis

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0785-MS1) - Continued		**Source: 1501463-40**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Methoxychlor [2C]	13.0162	5.0	16.6667	ND	78.1	16 - 153			
Surrogate: Decachlorobiphenyl	*12.56*		*16.6667*		*75.4*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.59*		*16.6667*		*69.6*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*12.33*		*16.6667*		*74.0*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.27*		*16.6667*		*79.6*	*16 - 105*			
Matrix Spike (B5D0785-MS3)		**Source: 1501179-67**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	11.2383	2.0	16.6667	ND	67.4	27 - 123			
4,4´-DDD [2C]	13.3465	2.0	16.6667	ND	80.1	27 - 123			
4,4´-DDE	17.3950	2.0	16.6667	10.0190	44.3	28 - 126			
4,4´-DDE [2C]	20.8622	2.0	16.6667	11.1780	58.1	28 - 126			
4,4´-DDT	25.6548	2.0	16.6667	28.9392	-19.7	12 - 149			M1
4,4´-DDT [2C]	30.1330	2.0	16.6667	32.5688	-14.6	12 - 149			M1
Aldrin	12.1322	1.0	16.6667	ND	72.8	29 - 116			
Aldrin [2C]	13.4845	1.0	16.6667	ND	80.9	29 - 116			
alpha-BHC	11.7792	1.0	16.6667	ND	70.7	27 - 104			
alpha-BHC [2C]	12.7712	1.0	16.6667	ND	76.6	27 - 104			
alpha-Chlordane	11.9620	1.0	16.6667	0.890500	66.4	14 - 130			
alpha-Chlordane [2C]	14.1520	1.0	16.6667	1.02900	78.7	14 - 130			
beta-BHC	11.1597	1.0	16.6667	ND	67.0	20 - 115			
beta-BHC [2C]	11.6195	1.0	16.6667	ND	69.7	20 - 115			
delta-BHC	9.84300	1.0	16.6667	ND	59.1	8 - 78			
delta-BHC [2C]	10.9333	1.0	16.6667	ND	65.6	8 - 78			
Dieldrin	11.1815	2.0	16.6667	0.987833	61.2	20 - 134			
Dieldrin [2C]	13.0962	2.0	16.6667	0.870500	73.4	20 - 134			
Endosulfan I	10.6968	1.0	16.6667	ND	64.2	27 - 114			
Endosulfan I [2C]	12.0838	1.0	16.6667	ND	72.5	27 - 114			
Endosulfan II	10.7423	2.0	16.6667	ND	64.5	16 - 125			
Endosulfan II [2C]	11.4173	2.0	16.6667	ND	68.5	16 - 125			
Endosulfan sulfate	11.5035	2.0	16.6667	ND	69.0	1 - 126			
Endosulfan Sulfate [2C]	11.8980	2.0	16.6667	ND	71.4	1 - 126			
Endrin	13.3450	2.0	16.6667	ND	80.1	33 - 122			
Endrin [2C]	13.0095	2.0	16.6667	ND	78.1	33 - 122			
Endrin aldehyde	8.57850	2.0	16.6667	ND	51.5	0 - 137			
Endrin aldehyde [2C]	9.35033	2.0	16.6667	ND	56.1	0 - 137			
Endrin ketone	10.8288	2.0	16.6667	ND	65.0	10 - 126			
Endrin ketone [2C]	11.3315	2.0	16.6667	ND	68.0	10 - 126			
gamma-BHC	12.4263	1.0	16.6667	ND	74.6	30 - 111			
gamma-BHC [2C]	13.1255	1.0	16.6667	ND	78.8	30 - 111			
gamma-Chlordane	11.6382	1.0	16.6667	0.936167	64.2	16 - 130			
gamma-Chlordane [2C]	13.3493	1.0	16.6667	0.909500	74.6	16 - 130			
Heptachlor	12.2368	1.0	16.6667	ND	73.4	34 - 127			
Heptachlor [2C]	13.5257	1.0	16.6667	ND	81.2	34 - 127			
Heptachlor epoxide	11.9550	1.0	16.6667	ND	71.7	19 - 130			
Heptachlor epoxide [2C]	13.1155	1.0	16.6667	ND	78.7	19 - 130			
Methoxychlor	14.9520	5.0	16.6667	ND	89.7	16 - 153			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0785-MS3) - Continued		**Source: 1501179-67**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Methoxychlor [2C]	11.7607	5.0	16.6667	ND	70.6	16 - 153			
Surrogate: Decachlorobiphenyl	*12.69*		*16.6667*		*76.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.52*		*16.6667*		*69.1*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.37*		*16.6667*		*62.2*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.53*		*16.6667*		*69.2*	*16 - 105*			
Matrix Spike (B5D0785-MS4)		**Source: 1501180-BP**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	12.7318	2.0	16.6667	ND	76.4	27 - 123			
4,4´-DDD [2C]	14.0043	2.0	16.6667	ND	84.0	27 - 123			
4,4´-DDE	24.9422	2.0	16.6667	8.05583	101	28 - 126			
4,4´-DDE [2C]	30.5413	2.0	16.6667	9.51617	126	28 - 126			
4,4´-DDT	20.2102	2.0	16.6667	4.78817	92.5	12 - 149			
4,4´-DDT [2C]	22.7177	2.0	16.6667	5.70117	102	12 - 149			
Aldrin	11.8945	1.0	16.6667	ND	71.4	29 - 116			
Aldrin [2C]	13.3762	1.0	16.6667	ND	80.3	29 - 116			
alpha-BHC	11.5487	1.0	16.6667	ND	69.3	27 - 104			
alpha-BHC [2C]	12.6155	1.0	16.6667	ND	75.7	27 - 104			
alpha-Chlordane	15.2537	1.0	16.6667	3.66000	69.6	14 - 130			
alpha-Chlordane [2C]	19.3965	1.0	16.6667	4.35450	90.3	14 - 130			
beta-BHC	10.8862	1.0	16.6667	ND	65.3	20 - 115			
beta-BHC [2C]	11.7798	1.0	16.6667	ND	70.7	20 - 115			
delta-BHC	9.73767	1.0	16.6667	ND	58.4	8 - 78			
delta-BHC [2C]	10.8370	1.0	16.6667	ND	65.0	8 - 78			
Dieldrin	20.4918	2.0	16.6667	9.50750	65.9	20 - 134			
Dieldrin [2C]	23.4397	2.0	16.6667	10.5568	77.3	20 - 134			
Endosulfan I	10.4445	1.0	16.6667	ND	62.7	27 - 114			
Endosulfan I [2C]	12.1140	1.0	16.6667	ND	72.7	27 - 114			
Endosulfan II	10.4713	2.0	16.6667	ND	62.8	16 - 125			
Endosulfan II [2C]	11.6112	2.0	16.6667	ND	69.7	16 - 125			
Endosulfan sulfate	12.9373	2.0	16.6667	ND	77.6	1 - 126			
Endosulfan Sulfate [2C]	13.0798	2.0	16.6667	ND	78.5	1 - 126			
Endrin	12.6457	2.0	16.6667	ND	75.9	33 - 122			
Endrin [2C]	12.9050	2.0	16.6667	ND	77.4	33 - 122			
Endrin aldehyde	10.1618	2.0	16.6667	ND	61.0	0 - 137			
Endrin aldehyde [2C]	9.85450	2.0	16.6667	ND	59.1	0 - 137			
Endrin ketone	11.6093	2.0	16.6667	ND	69.7	10 - 126			
Endrin ketone [2C]	11.6932	2.0	16.6667	ND	70.2	10 - 126			
gamma-BHC	11.6820	1.0	16.6667	ND	70.1	30 - 111			
gamma-BHC [2C]	12.9700	1.0	16.6667	ND	77.8	30 - 111			
gamma-Chlordane	13.8865	1.0	16.6667	2.28817	69.6	16 - 130			
gamma-Chlordane [2C]	16.3422	1.0	16.6667	2.29333	84.3	16 - 130			
Heptachlor	12.1908	1.0	16.6667	0.146500	72.3	34 - 127			
Heptachlor [2C]	13.2882	1.0	16.6667	0.070167	79.3	34 - 127			
Heptachlor epoxide	11.7778	1.0	16.6667	0.269333	69.1	19 - 130			
Heptachlor epoxide [2C]	13.3905	1.0	16.6667	0.283167	78.6	19 - 130			
Methoxychlor	13.6398	5.0	16.6667	ND	81.8	16 - 153			

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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike (B5D0785-MS4) - Continued		**Source: 1501180-BP**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Methoxychlor [2C]	13.6440	5.0	16.6667	ND	81.9	16 - 153			
Surrogate: Decachlorobiphenyl	*12.46*		*16.6667*		*74.7*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.95*		*16.6667*		*71.7*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.52*		*16.6667*		*63.1*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.70*		*16.6667*		*70.2*	*16 - 105*			
Matrix Spike Dup (B5D0785-MSD1)		**Source: 1501463-40**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	11.9803	2.0	16.6667	ND	71.9	27 - 123	2.65	20	
4,4´-DDD [2C]	13.7943	2.0	16.6667	ND	82.8	27 - 123	3.59	20	
4,4´-DDE	12.4735	2.0	16.6667	ND	74.8	28 - 126	2.82	20	
4,4´-DDE [2C]	14.7193	2.0	16.6667	ND	88.3	28 - 126	2.47	20	
4,4´-DDT	11.6265	2.0	16.6667	ND	69.8	12 - 149	1.88	20	
4,4´-DDT [2C]	13.2652	2.0	16.6667	ND	79.6	12 - 149	2.68	20	
Aldrin	12.7687	1.0	16.6667	ND	76.6	29 - 116	3.65	20	
Aldrin [2C]	14.1353	1.0	16.6667	ND	84.8	29 - 116	3.92	20	
alpha-BHC	12.6562	1.0	16.6667	ND	75.9	27 - 104	3.58	20	
alpha-BHC [2C]	13.5635	1.0	16.6667	ND	81.4	27 - 104	4.28	20	
alpha-Chlordane	12.3945	1.0	16.6667	0.173333	73.3	14 - 130	2.89	20	
alpha-Chlordane [2C]	14.7933	1.0	16.6667	0.130833	88.0	14 - 130	3.23	20	
beta-BHC	12.3867	1.0	16.6667	ND	74.3	20 - 115	4.16	20	
beta-BHC [2C]	13.2578	1.0	16.6667	ND	79.5	20 - 115	4.64	20	
delta-BHC	10.9953	1.0	16.6667	ND	66.0	8 - 78	3.75	20	
delta-BHC [2C]	12.1232	1.0	16.6667	ND	72.7	8 - 78	4.45	20	
Dieldrin	11.6370	2.0	16.6667	ND	69.8	20 - 134	1.35	20	
Dieldrin [2C]	13.4038	2.0	16.6667	ND	80.4	20 - 134	3.42	20	
Endosulfan I	11.4582	1.0	16.6667	ND	68.7	27 - 114	2.77	20	
Endosulfan I [2C]	12.9788	1.0	16.6667	ND	77.9	27 - 114	2.39	20	
Endosulfan II	11.9035	2.0	16.6667	ND	71.4	16 - 125	3.41	20	
Endosulfan II [2C]	13.0337	2.0	16.6667	ND	78.2	16 - 125	2.24	20	
Endosulfan sulfate	14.0938	2.0	16.6667	ND	84.6	1 - 126	3.90	20	
Endosulfan Sulfate [2C]	15.2952	2.0	16.6667	ND	91.8	1 - 126	4.95	20	
Endrin	12.3070	2.0	16.6667	ND	73.8	33 - 122	2.60	20	
Endrin [2C]	13.7460	2.0	16.6667	ND	82.5	33 - 122	3.25	20	
Endrin aldehyde	11.4223	2.0	16.6667	ND	68.5	0 - 137	0.937	20	
Endrin aldehyde [2C]	11.5452	2.0	16.6667	ND	69.3	0 - 137	4.39	20	
Endrin ketone	12.3333	2.0	16.6667	ND	74.0	10 - 126	5.96	20	
Endrin ketone [2C]	13.1395	2.0	16.6667	ND	78.8	10 - 126	3.91	20	
gamma-BHC	12.9010	1.0	16.6667	ND	77.4	30 - 111	4.00	20	
gamma-BHC [2C]	14.0928	1.0	16.6667	ND	84.6	30 - 111	4.45	20	
gamma-Chlordane	12.7095	1.0	16.6667	0.138500	75.4	16 - 130	2.98	20	
gamma-Chlordane [2C]	14.3493	1.0	16.6667	0.109833	85.4	16 - 130	3.55	20	
Heptachlor	13.1702	1.0	16.6667	ND	79.0	34 - 127	3.52	20	
Heptachlor [2C]	14.0037	1.0	16.6667	ND	84.0	34 - 127	4.35	20	
Heptachlor epoxide	12.5693	1.0	16.6667	ND	75.4	19 - 130	3.60	20	
Heptachlor epoxide [2C]	13.9740	1.0	16.6667	ND	83.8	19 - 130	3.47	20	
Methoxychlor	13.5307	5.0	16.6667	ND	81.2	16 - 153	5.76	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0785-MSD1) - Continued		**Source: 1501463-40**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Methoxychlor [2C]	12.4428	5.0	16.6667	ND	74.7	16 - 153	4.50	20	
Surrogate: Decachlorobiphenyl	*11.78*		*16.6667*		*70.7*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.50*		*16.6667*		*69.0*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*11.63*		*16.6667*		*69.8*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*12.57*		*16.6667*		*75.4*	*16 - 105*			
Matrix Spike Dup (B5D0785-MSD3)		**Source: 1501179-67**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	12.0603	2.0	16.6667	ND	72.4	27 - 123	7.06	20	
4,4´-DDD [2C]	14.1845	2.0	16.6667	ND	85.1	27 - 123	6.09	20	
4,4´-DDE	18.2973	2.0	16.6667	10.0190	49.7	28 - 126	5.06	20	
4,4´-DDE [2C]	21.8210	2.0	16.6667	11.1780	63.9	28 - 126	4.49	20	
4,4´-DDT	27.9338	2.0	16.6667	28.9392	-6.03	12 - 149	8.51	20	M1
4,4´-DDT [2C]	31.7892	2.0	16.6667	32.5688	-4.68	12 - 149	5.35	20	M1
Aldrin	12.5920	1.0	16.6667	ND	75.6	29 - 116	3.72	20	
Aldrin [2C]	14.0547	1.0	16.6667	ND	84.3	29 - 116	4.14	20	
alpha-BHC	12.1600	1.0	16.6667	ND	73.0	27 - 104	3.18	20	
alpha-BHC [2C]	13.2687	1.0	16.6667	ND	79.6	27 - 104	3.82	20	
alpha-Chlordane	12.5332	1.0	16.6667	0.890500	69.9	14 - 130	4.66	20	
alpha-Chlordane [2C]	14.7697	1.0	16.6667	1.02900	82.4	14 - 130	4.27	20	
beta-BHC	11.6120	1.0	16.6667	ND	69.7	20 - 115	3.97	20	
beta-BHC [2C]	12.0953	1.0	16.6667	ND	72.6	20 - 115	4.01	20	
delta-BHC	10.3062	1.0	16.6667	ND	61.8	8 - 78	4.60	20	
delta-BHC [2C]	11.4560	1.0	16.6667	ND	68.7	8 - 78	4.67	20	
Dieldrin	12.5893	2.0	16.6667	0.987833	69.6	20 - 134	11.8	20	
Dieldrin [2C]	13.7097	2.0	16.6667	0.870500	77.0	20 - 134	4.58	20	
Endosulfan I	11.2105	1.0	16.6667	ND	67.3	27 - 114	4.69	20	
Endosulfan I [2C]	12.6768	1.0	16.6667	ND	76.1	27 - 114	4.79	20	
Endosulfan II	11.0972	2.0	16.6667	ND	66.6	16 - 125	3.25	20	
Endosulfan II [2C]	12.2677	2.0	16.6667	ND	73.6	16 - 125	7.18	20	
Endosulfan sulfate	13.0018	2.0	16.6667	ND	78.0	1 - 126	12.2	20	
Endosulfan Sulfate [2C]	13.0403	2.0	16.6667	ND	78.2	1 - 126	9.16	20	
Endrin	13.8832	2.0	16.6667	ND	83.3	33 - 122	3.95	20	
Endrin [2C]	13.7253	2.0	16.6667	ND	82.4	33 - 122	5.36	20	
Endrin aldehyde	8.86400	2.0	16.6667	ND	53.2	0 - 137	3.27	20	
Endrin aldehyde [2C]	10.0083	2.0	16.6667	ND	60.0	0 - 137	6.80	20	
Endrin ketone	11.5462	2.0	16.6667	ND	69.3	10 - 126	6.41	20	
Endrin ketone [2C]	12.0633	2.0	16.6667	ND	72.4	10 - 126	6.26	20	
gamma-BHC	12.9273	1.0	16.6667	ND	77.6	30 - 111	3.95	20	
gamma-BHC [2C]	13.6253	1.0	16.6667	ND	81.8	30 - 111	3.74	20	
gamma-Chlordane	12.2178	1.0	16.6667	0.936167	67.7	16 - 130	4.86	20	
gamma-Chlordane [2C]	13.9235	1.0	16.6667	0.909500	78.1	16 - 130	4.21	20	
Heptachlor	12.6402	1.0	16.6667	ND	75.8	34 - 127	3.24	20	
Heptachlor [2C]	14.0243	1.0	16.6667	ND	84.1	34 - 127	3.62	20	
Heptachlor epoxide	12.4480	1.0	16.6667	ND	74.7	19 - 130	4.04	20	
Heptachlor epoxide [2C]	13.7705	1.0	16.6667	ND	82.6	19 - 130	4.87	20	
Methoxychlor	13.6978	5.0	16.6667	ND	82.2	16 - 153	8.76	20	

TRC
707 Wilshire Blvd., Suite 3250
Los Angeles , CA 90017

Project Number : LAUSD Foshay, 231058.0000.0004
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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0785-MSD3) - Continued		**Source: 1501179-67**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Methoxychlor [2C]	12.5160	5.0	16.6667	ND	75.1	16 - 153	6.22	20	
Surrogate: Decachlorobiphenyl	*12.75*		*16.6667*		*76.5*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*12.35*		*16.6667*		*74.1*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.69*		*16.6667*		*64.2*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.93*		*16.6667*		*71.6*	*16 - 105*			
Matrix Spike Dup (B5D0785-MSD4)		**Source: 1501180-BP**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
4,4´-DDD	11.9830	2.0	16.6667	ND	71.9	27 - 123	6.06	20	
4,4´-DDD [2C]	13.6338	2.0	16.6667	ND	81.8	27 - 123	2.68	20	
4,4´-DDE	24.2648	2.0	16.6667	8.05583	97.3	28 - 126	2.75	20	
4,4´-DDE [2C]	29.9042	2.0	16.6667	9.51617	122	28 - 126	2.11	20	
4,4´-DDT	18.8823	2.0	16.6667	4.78817	84.6	12 - 149	6.79	20	
4,4´-DDT [2C]	22.0042	2.0	16.6667	5.70117	97.8	12 - 149	3.19	20	
Aldrin	11.6412	1.0	16.6667	ND	69.8	29 - 116	2.15	20	
Aldrin [2C]	13.1120	1.0	16.6667	ND	78.7	29 - 116	1.99	20	
alpha-BHC	11.2703	1.0	16.6667	ND	67.6	27 - 104	2.44	20	
alpha-BHC [2C]	12.3335	1.0	16.6667	ND	74.0	27 - 104	2.26	20	
alpha-Chlordane	14.9268	1.0	16.6667	3.66000	67.6	14 - 130	2.17	20	
alpha-Chlordane [2C]	18.9997	1.0	16.6667	4.35450	87.9	14 - 130	2.07	20	
beta-BHC	10.6295	1.0	16.6667	ND	63.8	20 - 115	2.39	20	
beta-BHC [2C]	11.4610	1.0	16.6667	ND	68.8	20 - 115	2.74	20	
delta-BHC	9.43283	1.0	16.6667	ND	56.6	8 - 78	3.18	20	
delta-BHC [2C]	10.4817	1.0	16.6667	ND	62.9	8 - 78	3.33	20	
Dieldrin	19.0310	2.0	16.6667	9.50750	57.1	20 - 134	7.39	20	
Dieldrin [2C]	22.8187	2.0	16.6667	10.5568	73.6	20 - 134	2.68	20	
Endosulfan I	10.2283	1.0	16.6667	ND	61.4	27 - 114	2.09	20	
Endosulfan I [2C]	11.8848	1.0	16.6667	ND	71.3	27 - 114	1.91	20	
Endosulfan II	10.0465	2.0	16.6667	ND	60.3	16 - 125	4.14	20	
Endosulfan II [2C]	11.1318	2.0	16.6667	ND	66.8	16 - 125	4.22	20	
Endosulfan sulfate	12.0223	2.0	16.6667	ND	72.1	1 - 126	7.33	20	
Endosulfan Sulfate [2C]	11.8635	2.0	16.6667	ND	71.2	1 - 126	9.75	20	
Endrin	12.3547	2.0	16.6667	ND	74.1	33 - 122	2.33	20	
Endrin [2C]	12.5010	2.0	16.6667	ND	75.0	33 - 122	3.18	20	
Endrin aldehyde	9.19533	2.0	16.6667	ND	55.2	0 - 137	9.99	20	
Endrin aldehyde [2C]	8.86450	2.0	16.6667	ND	53.2	0 - 137	10.6	20	
Endrin ketone	10.3600	2.0	16.6667	ND	62.2	10 - 126	11.4	20	
Endrin ketone [2C]	11.2123	2.0	16.6667	ND	67.3	10 - 126	4.20	20	
gamma-BHC	11.4125	1.0	16.6667	ND	68.5	30 - 111	2.33	20	
gamma-BHC [2C]	12.6827	1.0	16.6667	ND	76.1	30 - 111	2.24	20	
gamma-Chlordane	13.5475	1.0	16.6667	2.28817	67.6	16 - 130	2.47	20	
gamma-Chlordane [2C]	16.0048	1.0	16.6667	2.29333	82.3	16 - 130	2.09	20	
Heptachlor	11.9660	1.0	16.6667	0.146500	70.9	34 - 127	1.86	20	
Heptachlor [2C]	13.0250	1.0	16.6667	0.070167	77.7	34 - 127	2.00	20	
Heptachlor epoxide	11.5618	1.0	16.6667	0.269333	67.8	19 - 130	1.85	20	
Heptachlor epoxide [2C]	13.0873	1.0	16.6667	0.283167	76.8	19 - 130	2.29	20	
Methoxychlor	12.7725	5.0	16.6667	ND	76.6	16 - 153	6.57	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058.0000.0004
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Los Angeles , CA 90017	Reported : 04/29/2015

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0785 - GCSEMI_PCB/PEST_S (continued)									
Matrix Spike Dup (B5D0785-MSD4) - Continued		**Source: 1501180-BP**			Prepared: 4/27/2015 Analyzed: 4/28/2015				
Methoxychlor [2C]	12.7778	5.0	16.6667	ND	76.7	16 - 153	6.56	20	
Surrogate: Decachlorobiphenyl	*11.35*		*16.6667*		*68.1*	*16 - 137*			
Surrogate: Decachlorobiphenyl [2C]	*11.28*		*16.6667*		*67.7*	*16 - 137*			
Surrogate: Tetrachloro-m-xylene	*10.24*		*16.6667*		*61.5*	*16 - 105*			
Surrogate: Tetrachloro-m-xylene [2C]	*11.34*		*16.6667*		*68.0*	*16 - 105*			

Certificate of Analysis

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Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the laboratory control sample.
L3	Laboratory control sample outside in-house established limits but within method criteria.
H4	Change order analysis requested past the sample holding time.
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)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

April 17, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1501229
Client Reference : LAUSD Foshay, 231058

Enclosed are the results for sample(s) received on April 06, 2015 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,



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

TRC		Project Number :	LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/17/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F2S-0.5	1501229-03	Soil	4/04/15 9:45	4/06/15 13:45
F2W-0.5	1501229-09	Soil	4/04/15 10:05	4/06/15 13:45
BD15-EbN-0.5	1501229-15	Soil	4/04/15 11:20	4/06/15 13:45
BD15-EbN-1	1501229-16	Soil	4/04/15 11:20	4/06/15 13:45
F2N-0.5	1501229-18	Soil	4/04/15 9:55	4/06/15 13:45
F2E-0.5	1501229-24	Soil	4/04/15 10:20	4/06/15 13:45
BD15-EbE-0.5	1501229-28	Soil	4/04/15 11:11	4/06/15 13:45
BD15-EbE-1	1501229-29	Soil	4/04/15 11:11	4/06/15 13:45
BD15-EbS-0.5	1501229-34	Soil	4/04/15 12:13	4/06/15 13:45
BD15-EbS-1	1501229-35	Soil	4/04/15 0:00	4/06/15 13:45
EQ Blank	1501229-40	Water	4/04/15 13:15	4/06/15 13:45

CASE NARRATIVE

The samples for EPA 6020 analysis were subcontracted to AETL with DOHS Cert.#1541.

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
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Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: SB**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501229-15	BD15-EbN-0.5	**1100**	mg/kg	1.0	1	B5D0235	04/08/2015	04/08/15 11:39	
1501229-16	BD15-EbN-1	**55**	mg/kg	1.0	1	B5D0488	04/16/2015	04/16/15 15:45	
1501229-28	BD15-EbE-0.5	**230**	mg/kg	1.0	1	B5D0235	04/08/2015	04/08/15 11:50	
1501229-29	BD15-EbE-1	**84**	mg/kg	1.0	1	B5D0488	04/16/2015	04/16/15 15:47	
1501229-34	BD15-EbS-0.5	**650**	mg/kg	1.0	1	B5D0235	04/08/2015	04/08/15 12:32	
1501229-35	BD15-EbS-1	**55**	mg/kg	1.0	1	B5D0488	04/16/2015	04/16/15 15:49	

Total Metals by ICP-AES EPA 6010B

Analyte: Lead **Analyst: SB**

Laboratory ID	Client Sample ID	Result	Units	PQL	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1501229-40	EQ Blank	**ND**	mg/L	0.0050	1	B5D0223	04/08/2015	04/08/15 17:57	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0223 - EPA 3010A_W									
Blank (B5D0223-BLK1)					Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	ND	0.0050			NR				
LCS (B5D0223-BS1)					Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	1.01441	0.0050	1.00000		101	80 - 120			
Duplicate (B5D0223-DUP1)		**Source: 1501180-33**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	ND	0.0050		ND	NR			20	
Duplicate (B5D0223-DUP2)		**Source: 1501180-33**			Prepared: 4/8/2015 Analyzed: 4/9/2015				
Lead	ND	0.010		ND	NR			20	
Matrix Spike (B5D0223-MS1)		**Source: 1501180-33**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	2.47965	0.0050	2.50000	ND	99.2	85 - 114			
Matrix Spike Dup (B5D0223-MSD1)		**Source: 1501180-33**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	2.80454	0.0050	2.50000	ND	112	85 - 114	12.3	20	
Batch B5D0235 - EPA 3050B_S									
Blank (B5D0235-BLK1)					Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	ND	1.0			NR				
LCS (B5D0235-BS1)					Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	48.8854	1.0	50.0000		97.8	80 - 120			
Duplicate (B5D0235-DUP1)		**Source: 1501180-40**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	6.44065	1.0		5.63516	NR		13.3	20	
Matrix Spike (B5D0235-MS1)		**Source: 1501180-40**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	100.381	1.0	125.000	5.63516	75.8	35 - 129			
Matrix Spike Dup (B5D0235-MSD1)		**Source: 1501180-40**			Prepared: 4/8/2015 Analyzed: 4/8/2015				
Lead	100.513	1.0	125.000	5.63516	75.9	35 - 129	0.131	20	
Batch B5D0488 - EPA 3050B_S									
Blank (B5D0488-BLK1)					Prepared: 4/16/2015 Analyzed: 4/17/2015				
Lead	ND	1.0			NR				
LCS (B5D0488-BS1)					Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	45.5068	1.0	50.0000		91.0	80 - 120			
Duplicate (B5D0488-DUP1)		**Source: 1501289-01**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	2.92642	8.0		7.41264	NR		86.8	20	R
Matrix Spike (B5D0488-MS1)		**Source: 1501289-01**			Prepared: 4/16/2015 Analyzed: 4/16/2015				

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Total Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0488 - EPA 3050B_S (continued)									
Matrix Spike (B5D0488-MS1) - Continued		**Source: 1501289-01**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	919.164	8.0	1000.00	7.41264	91.2	35 - 129			
Matrix Spike Dup (B5D0488-MSD1)		**Source: 1501289-01**			Prepared: 4/16/2015 Analyzed: 4/16/2015				
Lead	924.662	8.0	1000.00	7.41264	91.7	35 - 129	0.596	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/17/2015

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
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)
TX1	TX-NELAP (TCEQ)

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.

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Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attention: Rachelle Arada

Number of Pages	**6**
Date Received	**04/08/2015**
Date Reported	**04/08/2015**

Job Number	Order Date	Client
76542	04/08/2015	ATL

Project ID: 1501229
Project Name: PO# SC09490

Enclosed please find results of analyses of 1 water and 4 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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Ordered By

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755-5225

Project ID: 1501229 Date Received 04/08/2015 Date Reported 04/10/2015

Telephone: (562)989-4045
Attention: Rachelle Arada

Job Number	Order Date	Client
76542	04/08/2015	ATL

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 5 samples with the following specification on 04/08/2015.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76542.05	1501229-40	04/04/2015	Aqueous	1

Method ^ Submethod	Req Date	Priority	TAT	Units
6020 ^ AS	04/15/2015	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
76542.01	1501229-03	04/04/2015	Soil	1
76542.02	1501229-09	04/04/2015	Soil	1
76542.03	1501229-18	04/04/2015	Soil	1
76542.04	1501229-24	04/04/2015	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	04/08/2015	1	Rush	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Dire

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **2**

Project ID: 1501229
Project Name: PO# SC09490

AETL Job Number	Submitted	Client
76542	04/08/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0408151C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			04/08/2015				
Preparation Method			3050B				
Date Analyzed			04/08/2015				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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ANALYTICAL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 3

Project ID: 1501229
Project Name: PO# SC09490

AETL Job Number	Submitted	Client
76542	04/08/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0408151C1

Our Lab I.D.			76542.01	76542.02	76542.03	76542.04	
Client Sample I.D.			1501229-03	1501229-09	1501229-18	1501229-24	
Date Sampled			04/04/2015	04/04/2015	04/04/2015	04/04/2015	
Date Prepared			04/08/2015	04/08/2015	04/08/2015	04/08/2015	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			04/08/2015	04/08/2015	04/08/2015	04/08/2015	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.50	1.00	2.46	3.57	2.20	3.88	

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ANALYTICAL RESULTS

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Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **4**

Project ID: 1501229
Project Name: PO# SC09490

AETL Job Number	Submitted	Client
76542	04/08/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0409151C1

Our Lab I.D.			Method Blank	**76542.05**			
Client Sample I.D.				1501229-40			
Date Sampled				04/04/2015			
Date Prepared			04/09/2015	04/09/2015			
Preparation Method			3005A	3005A			
Date Analyzed			04/09/2015	04/09/2015			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.0025	0.0250	ND	ND			

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QUALITY CONTROL RESULTS

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Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: **5**

Project ID: 1501229
Project Name: PO# SC09490

AETL Job Number	Submitted	Client
76542	04/08/2015	ATL

Method: 6020, Arsenic by ICP/MS

QC Batch No: 0409151C1; Dup or Spiked Sample: 76542.05; LCS: Clean Water; QC Prepared: 04/09/2015; QC Analyzed: 04/09/2015; Units: mg/L

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	0.00	0.0100	0.0101	101	0.0100	0.0102	102	<1	75-125	<15

QC Batch No: 0409151C1; Dup or Spiked Sample: 76542.05; LCS: Clean Water; QC Prepared: 04/09/2015; QC Analyzed: 04/09/2015; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	10.0	9.87	98.7	10.0	9.84	98.4	<1	75-125	<15	

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QUALITY CONTROL RESULTS

Ordered By

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755-5225

Telephone: (562)989-4045
Attn: Rachelle Arada
Page: 6

Project ID: 1501229
Project Name: PO# SC09490

AETL Job Number	Submitted	Client
76542	04/08/2015	ATL

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0408151C1; Dup or Spiked Sample: 76542.01; LCS: Clean Sand; QC Prepared: 04/08/2015; QC Analyzed: 04/08/2015; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	2.46	10.0	13.2	107	10.0	13.2	107	<1	80-120	<15

QC Batch No: 0408151C1; Dup or Spiked Sample: 76542.01; LCS: Clean Sand; QC Prepared: 04/08/2015; QC Analyzed: 04/08/2015; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	1.00	1.05	105	1.00	1.04	104	<1	80-120	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

ADVANCED TECHNOLOGY LABORATORIES

76542

SUBCONTRACT ORDER

Work Order: 1501229

SENDING LABORATORY:	RECEIVING LABORATORY:
Advanced Technology Laboratories	AETL
3275 Walnut Avenue	2834 North Naomi Street
Signal Hill, CA 90755	Burbank, CA 91504
Phone: 562.989.4045	Phone :(818) 845-8200
Fax: 562.989.6348	Fax: (818) 845-8840
Project Manager: Rachelle Arada (Rachelle@atlglobal.com)	PO#: SC09490-RUSH TAT (RA)

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1501229-03 / F2S-0.5		**Soil**	**04/04/15 09:45**	**Report Arsenic only.** 76542.01
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/08/15 15:00**	10/01/15 09:45		
ATL Lab#: 1501229-09 / F2W-0.5		**Soil**	**04/04/15 10:05**	76542.02
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/08/15 15:00**	10/01/15 10:05		
ATL Lab#: 1501229-18 / F2N-0.5		**Soil**	**04/04/15 09:55**	76542.03
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/08/15 15:00**	10/01/15 09:55		
ATL Lab#: 1501229-24 / F2E-0.5		**Soil**	**04/04/15 10:20**	76542.04
6020_SUB [Individual Metals by ICPMS] Glass Jar - 2 oz	**04/08/15 15:00**	10/01/15 10:20		
ATL Lab#: 1501229-40 / EQ Blank		**Water**	**04/04/15 13:15**	76542.05 Standard TAT for EB Blank
6020_SUB [Individual Metals by ICPMS] Poly HNO3 - 500mL	~~04/08/15 15:00~~ 04/14/15 1700	10/01/15 13:15		

Released By	4/8/15 1140 Date	Received By	4/8/15 1140 Date
Released By	4/8/15 1250 Date	Received By	04/08/15 1250 Date

ADVANCED TECHNOLOGY LABORATORIES
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CHAIN OF CUSTODY RECORD

Page 1 of 2

Instruction: Complete all shaded areas.

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

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Suite 3250,			Tel: (213) 213-9400	
	City: Los Angeles	State: CA	Zip: 90017	Fax:	

SEND REPORT TO:	SEND INVOICE TO: ☑same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Suite 3250\	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058
Sampler: Logan Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis: Select Analysis ×9; Lead (6010B); Asenic (6020); Enter Custom Analysis ×10
Encircle Sample Matrix: Select Soil Matrix; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix

ITEM	Lab No.	Sample ID / Location	Date	Time	TAT	Container #	Container Type	Container Material	QA/QC	REMARKS
1		F2E-2.5	04/04/15	10:20					☐Routine ☐Caltrans ☐Legal ☐RWQCB ☐Level IV	Hold
2		" - 3		↓						↓
3		F2S-0.5		9:45	2	1	5	1		
4		" - 1								Hold
5		" - 1.5								
6		" - 2								
7		" - 2.5								
8		" - 3		↓						↓
9		F2W-0.5		10:05	2	1	5	1		
10		" - 1	↓	↓						Hold

Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3

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.

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

John Gonzales — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
	4-6-15	1345	Edward Rodriguez	4-6-15	1345
Edward Rodriguez	4-6-15	1805		4/6/15	1805

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CHAIN OF CUSTODY RECORD

Page 2 of 5

Instruction: Complete all shaded areas.

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Method of Transport: ☐Client ☐ATL ☐FedEx ☐OnTrac ☐GSO ☐Other:

Sample Conditions Upon Receipt

Condition	Y	N	Condition	Y	N
1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
4. SEALED	☐	☐			

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Suite 3250, | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Suite 3250\
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: ☑same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058
Sampler: Logan Wicks
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Lead (6010B)	Asenic (6020)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1		FZW-1.5	04/04/15	10:05																										1	5	1		hold
2		" -2																																
3		" -2.5																																
4		" -3																																
5		BD15-EBN-0.5		11:20									X																2	1	5	1		
6		" -1																																hold
7		" -1.5																																
8		" -2																																
9		" -2.5																																
10		" -3																																

TERMS

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John Gonzales — Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
Edward Rodriguez	4-6-15	1345	Edward Rodriguez	4-6-15	1345
Edward Rodriguez	4-6-15	1805		4/6/15	1805

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Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 5

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC
Address: 707 Wilshire Blvd. Suite 3250,
City: Los Angeles State: CA Zip: 90017
Tel: (213) 213-9400
Fax:

SEND REPORT TO:
Attn: John Gonzales
Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Suite 3250\
City: Los Angeles State: CA Zip: 90017

SEND INVOICE TO: ☑same as SEND REPORT TO
Attn:
Email:
Company:
Address:
City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Quote #:
Special Instructions/Comments:
Project No.: 231058
PO #:
Sampler: Logan Wicks

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time
1		FZN - 0.5	04/04/15	9:55
2		" - 1		
3		" - 1.5		
4		" - 2		
5		" - 2.5		
6		" - 3		
7		FZE - 0.5		10:20
8		" - 1		
9		" - 1.5		
10		" - 2		

Encircle or Write Requested Analysis

Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Lead (6010B)	Asenic (6020)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis
									X								
									X								

Encircle Sample Matrix

Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix

TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
2	1	5	1		
					Hold
2					
					Hold

QA/QC: ☐Routine ☐Caltrans ☐Legal ☐RWQCB ☐Level IV

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:
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   - 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.

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

John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
	4-6-15	1345	Edward Rodriguez	4-6-15	1345
Edward Rodriguez	4-6-15	1805		4/6/15	1805

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 5

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

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

CUSTOMER

Company: TRC | Address: 707 Wilshire Blvd. Suite 3250, | Tel: (213) 213-9400
City: Los Angeles | State: CA | Zip: 90017 | Fax:

SEND REPORT TO:
Attn: John Gonzales | Email: jgonzales@trcsolutions.com
Company: TRC
Address: 707 Wilshire Blvd. Suite 3250\
City: Los Angeles | State: CA | Zip: 90017

SEND INVOICE TO: ☑same as SEND REPORT TO
Attn: | Email:
Company:
Address:
City: | State: | Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058
Sampler: Logan Wicks
Quote #:
PO #:
Special Instructions/Comments:

Encircle or Write Requested Analysis | Encircle Sample Matrix | TAT | Container | QA/QC

ITEM	Lab No.	Sample ID / Location	Date	Time	Lead (6010B)	Soil Matrix	Solid Matrix	Water Matrix	Wastewater Matrix	Aqueous Matrix	TAT	#	Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1		BD15-EbE-0.5	04/04/15	11:40	X						2	1	5	1		1'
2		" -1														Hold
3		" -1.5														
4		" -2														
5		" -2.5														
6		" -3		↓												↓
7		BD15-EbS-0.5		12:13	X						2	1	5	1		
8		" -1														Hold
9		" -1.5														
10		" -2	↓													↓

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John Gonzales
Submitter Print Name | Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4-6-15	1345	Edward Rodriguez	4-6-15	1345
Edward Rodriguez	4-6-15	1805	Edward Rodriguez (FedEx)	4/6/15	(805)

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 5

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver: 20130715

Method of Transport	Sample Conditions Upon Receipt					
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☐Client ☐ATL	1. CHILLED	☐	☐	5. # OF SAMPLES MATCH COC	☐	☐
☐FedEx ☐OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☐
☐GSO	3. CONTAINER INTACT	☐	☐	7. COOLER TEMP, deg C:		
☐Other:	4. SEALED	☐	☐			

CUSTOMER

Company: TRC	Address: 707 Wilshire Blvd. Suite 3250,			Tel: (213) 213-9400	
	City: Los Angeles	State: CA	Zip: 90017	Fax:	

SEND REPORT TO:	SEND INVOICE TO: ☑same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC	Company:
Address: 707 Wilshire Blvd. Suite 3250\	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD Foshay
Project No.: 231058
Sampler: Logan Wicks
Quote #:
PO #:
Special Instructions/Comments:

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead (6010B)	Asenic (6020)	TAT	Container #	Container Type	Container Material	QA/QC	REMARKS
1		BD15-EB5-2.5	04/04/15	12:13	X						☐Routine ☐Caltrans ☐Legal ☐RWQCB ☐Level IV	hold
2		1/ -3	↓	↓								↓
3		EQ Blank	4/4/15	13:15	X	X	5	2	3/4	Y2		
4												
5												
6												
7												
8												
9												
10												

Encircle or Write Requested Analysis: Select Analysis; Enter Custom Analysis
Encircle Sample Matrix: Select Soil Matrix; Select Solid Matrix; Select Water Matrix; Select Wastewater Matrix; Select Aqueous Matrix; Enter Custom Matrix
Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister
Container Material: 1=Glass; 2=Plastic; 3=Metal
Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn ((Ac)2; 6=NaOH; 7=NA2S2O3

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

John Gonzales
Submitter Print Name — Signature

CUSTODY

Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:
	4-6-15	1345	Edward Rodriguez	4-6-15	1345
Edward Rodriguez	4-6-15	1905		4/6/15	1905

ADVANCED TECHNOLOGY LABORATORIES

April 29, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

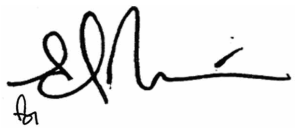
Re: ATL Work Order Number : 1501229

Client Reference : LAUSD Foshay, 231058

Enclosed are the results for sample(s) received on April 06, 2015 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,



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

TRC		Project Number :	LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	04/29/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD15-EbN-0.5	1501229-15	Soil	4/04/15 11:20	4/06/15 13:45
BD15-EbE-0.5	1501229-28	Soil	4/04/15 11:11	4/06/15 13:45
BD15-EbE-1.5	1501229-30	Soil	4/04/15 11:11	4/06/15 13:45
BD15-EbS-0.5	1501229-34	Soil	4/04/15 12:13	4/06/15 13:45

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Client Sample ID BD15-EbN-0.5

Lab ID: 1501229-15

TCLP Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.1**	0.050	1	B5D0807	04/28/2015	04/28/15 16:43	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Client Sample ID BD15-EbE-0.5

Lab ID: 1501229-28

STLC Metals by ICP-AES by EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**18**	1.0	20	B5D0775	04/27/2015	04/28/15 12:37	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Client Sample ID BD15-EbE-1.5

Lab ID: 1501229-30

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**16**	1.0	1	B5D0793	04/28/2015	04/28/15 15:14	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Client Sample ID BD15-EbS-0.5

Lab ID: 1501229-34

TCLP Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.7**	0.050	1	B5D0807	04/28/2015	04/28/15 16:58	

STLC Metals by ICP-AES by EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**64**	1.0	20	B5D0775	04/27/2015	04/28/15 12:53	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0793 - EPA 3050B_S									
Blank (B5D0793-BLK1)				Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	ND	1.0			NR				
LCS (B5D0793-BS1)				Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	48.6360	1.0	50.0000		97.3	80 - 120			
Duplicate (B5D0793-DUP1)		**Source: 1501229-30**		Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	13.0680	1.0		16.1186	NR		20.9	20	R
Matrix Spike (B5D0793-MS1)		**Source: 1501229-30**		Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	97.8974	1.0	125.000	16.1186	65.4	35 - 129			
Matrix Spike Dup (B5D0793-MSD1)		**Source: 1501229-30**		Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	98.6914	1.0	125.000	16.1186	66.1	35 - 129	0.808	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0807 - EPA 3010A_S									
Blank (B5D0807-BLK1)				Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	ND	0.050			NR				
LCS (B5D0807-BS1)				Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	0.954539	0.050	1.00000		95.5	80 - 120			
Duplicate (B5D0807-DUP1)		**Source: 1501229-15**		Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	1.11635	0.050		1.09694	NR		1.75	20	
Matrix Spike (B5D0807-MS1)		**Source: 1501229-15**		Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	3.42344	0.050	2.50000	1.09694	93.1	77 - 121			
Matrix Spike Dup (B5D0807-MSD1)		**Source: 1501229-15**		Prepared: 4/28/2015 Analyzed: 4/28/2015					
Lead	3.59540	0.050	2.50000	1.09694	99.9	77 - 121	4.90	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5D0775 - STLC_S Extraction									
Blank (B5D0775-BLK1)				Prepared: 4/27/2015 Analyzed: 4/28/2015					
Lead	ND	1.0			NR				
LCS (B5D0775-BS1)				Prepared: 4/27/2015 Analyzed: 4/28/2015					
Lead	2.14930		2.00000		107	80 - 120			
Duplicate (B5D0775-DUP1)		**Source: 1501229-28**		Prepared: 4/27/2015 Analyzed: 4/28/2015					
Lead	18.4831	1.0		18.4187	NR		0.349	20	
Matrix Spike (B5D0775-MS1)		**Source: 1501229-28**		Prepared: 4/27/2015 Analyzed: 4/28/2015					
Lead	20.0293		2.50000	18.4187	64.4	44 - 130			
Matrix Spike Dup (B5D0775-MSD1)		**Source: 1501229-28**		Prepared: 4/27/2015 Analyzed: 4/28/2015					
Lead	21.0752		2.50000	18.4187	106	44 - 130	5.09	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 04/29/2015

Notes and Definitions

R	RPD value outside acceptance criteria. Calculation is based on raw values.
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)
TX1	TX-NELAP (TCEQ)

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.

May 19, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

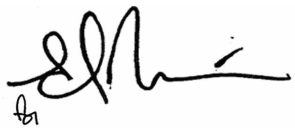
Re: ATL Work Order Number : 1501229

Client Reference : LAUSD Foshay, 231058

Enclosed are the results for sample(s) received on April 06, 2015 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.

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Sincerely,



Eddie Rodriguez

Laboratory Director

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Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/19/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD15-EbE-0.5	1501229-28	Soil	4/04/15 11:11	4/06/15 13:45

Certificate of Analysis

TRC	Project Number : LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 05/19/2015

Client Sample ID BD15-EbE-0.5
Lab ID: 1501229-28

TCLP Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.27**	0.050	1	B5E0474	05/19/2015	05/19/15 13:26	

QUALITY CONTROL SECTION

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5E0474 - EPA 3010A_S									
Blank (B5E0474-BLK1)				Prepared: 5/19/2015 Analyzed: 5/19/2015					
Lead	ND	0.050			NR				
LCS (B5E0474-BS1)				Prepared: 5/19/2015 Analyzed: 5/19/2015					
Lead	1.01868	0.050	1.00000		102	80 - 120			
Duplicate (B5E0474-DUP1)		**Source: 1501229-28**		Prepared: 5/19/2015 Analyzed: 5/19/2015					
Lead	0.269980	0.050		0.266570	NR		1.27	20	
Matrix Spike (B5E0474-MS1)		**Source: 1501229-28**		Prepared: 5/19/2015 Analyzed: 5/19/2015					
Lead	2.62510	0.050	2.50000	0.266570	94.3	77 - 121			
Matrix Spike Dup (B5E0474-MSD1)		**Source: 1501229-28**		Prepared: 5/19/2015 Analyzed: 5/19/2015					
Lead	2.57912	0.050	2.50000	0.266570	92.5	77 - 121	1.77	20	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay, 231058
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	05/19/2015

Notes and Definitions

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)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES

November 13, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1503885
Client Reference : LAUSD Foshay LC, 231058 000004

Enclosed are the results for sample(s) received on November 11, 2015 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,

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

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	11/13/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD14-Ea-0.5	1503885-01	Soil	11/11/15 9:20	11/11/15 14:10
BD14-Eb-0.5	1503885-03	Soil	11/11/15 9:35	11/11/15 14:10
BD14-Ec-0.5	1503885-05	Soil	11/11/15 9:50	11/11/15 14:10
BD14-Ed-0.5	1503885-07	Soil	11/11/15 10:10	11/11/15 14:10
BD14-Ee-0.5	1503885-09	Soil	11/11/15 10:20	11/11/15 14:10
BD14-Ef-0.5	1503885-11	Soil	11/11/15 10:40	11/11/15 14:10

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	11/13/2015

Client Sample ID BD14-Ea-0.5

Lab ID: 1503885-01

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**180**	1.0	1	B5K0339	11/12/2015	11/12/15 16:08	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	11/13/2015

Client Sample ID BD14-Eb-0.5

Lab ID: 1503885-03

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**94**	1.0	1	B5K0339	11/12/2015	11/12/15 16:20	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	11/13/2015

Client Sample ID BD14-Ec-0.5

Lab ID: 1503885-05

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**92**	1.0	1	B5K0339	11/12/2015	11/12/15 16:23	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	11/13/2015

Client Sample ID BD14-Ed-0.5

Lab ID: 1503885-07

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1100**	1.0	1	B5K0339	11/12/2015	11/12/15 16:26	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	11/13/2015

Client Sample ID BD14-Ee-0.5

Lab ID: 1503885-09

Total Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**340**	1.0	1	B5K0339	11/12/2015	11/12/15 16:29	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 11/13/2015

Client Sample ID BD14-Ef-0.5
Lab ID: 1503885-11

Total Metals by ICP-AES EPA 6010B — **Analyst: RR**

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**390**	1.0	1	B5K0339	11/12/2015	11/12/15 16:39	

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5K0339 - EPA 3050B_S									
Blank (B5K0339-BLK1)				Prepared: 11/12/2015 Analyzed: 11/12/2015					
Lead	ND	1.0			NR				
LCS (B5K0339-BS1)				Prepared: 11/12/2015 Analyzed: 11/12/2015					
Lead	48.6927	1.0	50.0000		97.4	80 - 120			
Duplicate (B5K0339-DUP1)		**Source: 1503885-01**		Prepared: 11/12/2015 Analyzed: 11/12/2015					
Lead	168.940	1.0		181.880	NR		7.38	20	
Matrix Spike (B5K0339-MS1)		**Source: 1503885-01**		Prepared: 11/12/2015 Analyzed: 11/12/2015					
Lead	258.297	1.0	125.000	181.880	61.1	35 - 129			
Matrix Spike Dup (B5K0339-MSD1)		**Source: 1503885-01**		Prepared: 11/12/2015 Analyzed: 11/12/2015					
Lead	218.070	1.0	125.000	181.880	29.0	35 - 129	16.9	20	M1

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	11/13/2015

Notes and Definitions

M1	Matrix spike recovery outside of acceptance limit. 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)
TX1	TX-NELAP (TCEQ)

Notes:
(1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
(2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.
(3) Results are wet unless otherwise specified.

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 1 of 2

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport		Sample Conditions Upon Receipt					
		Condition	Y	N	Condition	Y	N
☒ Client	☐ ATL	1. CHILLED	☒	☐	5. # OF SAMPLES MATCH COC	☒	☐
☐ FedEx	☐ OnTrac	2. HEADSPACE (VOA)	☐	☐	6. PRESERVED	☐	☒
☐ GSO		3. CONTAINER INTACT	☒	☐	7. COOLER TEMP, deg C:	4.5	
☐ Other:		4. SEALED	☐	☒			

CUSTOMER

Company: TRC Solutions		Address: 707 Wilshire Blvd., Suite 3250			Tel: (213) 213-9400
		City: Los Angeles	State: CA	Zip: 90017	Fax: (818) 772-1926

SEND REPORT TO:		SEND INVOICE TO: ☐ same as SEND REPORT TO	
Attn: John Gonzales	Email: jgonzales@trcsolutions.com	Attn:	Email:
Company: TRC Solutions		Company:	
Address: 707 Wilshire Blvd., Suite 3250		Address:	
City: Los Angeles / State: CA / Zip: 90017		City: / State: / Zip:	

PROJECT SAMPLES

Project Name:	Quote #:	Special Instructions/Comments:
LAUSD - Foshay LC		2 day TAT on samples
Project No.: 231058 000004	PO #:	
Sampler: Ross Surrency		

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Lead (6010B)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7 = Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4 = 4C; 5=Zn (Ac)2; 6=NaOH; 7=NH4Cl2O3	REMARKS
1	1503885 - 1	BD14-Ea-0.5	11/11/15	0920									X										X						2	1	1	3	4	
2	- 2	BD14-Ea-1	11/11/15	0925																			X							1	1	3	4	HOLD
3	- 3	BD14-Eb-0.5	11/11/15	0935									X										X						2	1	1	3	4	
4	- 4	BD14-Eb-1	11/11/15	0940																			X							1	1	3	4	HOLD
5	- 5	BD14-Ec-0.5	11/11/15	0950									X										X						2	1	1	3	4	
6	- 6	BD14-Ec-1	11/11/15	0955																			X							1	1	3	4	HOLD
7	- 7	BD14-Ed-0.5	11/11/15	1010									X										X						2	1	1	3	4	
8	- 8	BD14-Ed-1	11/11/15	1015																			X							1	1	3	4	HOLD
9	- 9	BD14-Ee-0.5	11/11/15	1020									X										X						2	1	1	3	4	
10	- 10	BD14-Ee-1	11/11/15	1030																			X							1	1	3	4	HOLD

QA/QC: ☐ Routine ☐ Caltrans ☐ Legal ☐ RWQCB ☐ Level IV

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.

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

ROSS SURRENCY (Submitter Print Name) — Ross Surrency (Signature)

CUSTODY

Relinquished by: (Signature and Printed Name) ROSS SURRENCY Ross Surrency	Date: 11/11/15	Time: 1410	Received by: (Signature and Printed Name) FEDEX	Date: 11/11/15	Time: 1410
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:

ADVANCED TECHNOLOGY LABORATORIES
3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 ● Fax: (562) 989-4040

CHAIN OF CUSTODY RECORD

Page 2 of 2

Instruction: Complete all shaded areas.

For Laboratory Use Only — ATLCOC Ver:20130715

Method of Transport: ☑ Client ☐ ATL ☐ FedEx ☐ OnTrac ☐ GSO ☐ Other:

Sample Conditions Upon Receipt					
Condition	Y	N	Condition	Y	N
1. CHILLED	☑	☐	5. # OF SAMPLES MATCH COC	☑	☐
2. HEADSPACE (VOA)	N/A	☐	6. PRESERVED	☐	☑
3. CONTAINER INTACT	☑	☐	7. COOLER TEMP, deg C:		
4. SEALED	☐	☑			

CUSTOMER

Company: TRC Solutions	Address: 707 Wilshire Blvd., Suite 3250		Tel: (213) 213-9400
	City: Los Angeles	State: CA Zip: 90017	Fax: (818) 772-1926

SEND REPORT TO:	SEND INVOICE TO: ☐same as SEND REPORT TO
Attn: John Gonzales Email: jgonzales@trcsolutions.com	Attn: Email:
Company: TRC Solutions	Company:
Address: 707 Wilshire Blvd., Suite 3250	Address:
City: Los Angeles State: CA Zip: 90017	City: State: Zip:

PROJECT SAMPLES

Project Name: LAUSD - Foshay LC
Project No.: 231058 000004
Sampler: Ross Surrency
Quote #:
PO #:
Special Instructions/Comments: 2 day TAT on samples

ITEM	Lab No.	Sample Description: Sample ID / Location	Date	Time	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Select Analysis	Lead (6010B)	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Enter Custom Analysis	Select Soil Matrix	Select Solid Matrix	Select Water Matrix	Select Wastewater Matrix	Select Aqueous Matrix	Enter Custom Matrix	TAT	Container #	Container Type: 1=Tube; 2=VOA; 3=Liter; 4=Pint; 5=Jar; 6=Tedlar; 7=Canister	Container Material: 1=Glass; 2=Plastic; 3=Metal	Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=4C; 5=Zn (Ac)2; 6=NaOH; 7=NA2S2O3	REMARKS
1	1503885 -01	BD14-Ef-0.5	11/11/15	1040									X										X						2	1	1	3	4	
2	↓ -02	BD14-Ef-1	11/11/15	1045																			X							1	1	3	4	HOLD
3	~~BD14-Eg-0.5~~ DLR	~~11/11/15~~ DLR											X DLR																					
4	~~BD14-Eg-1~~ DLR	~~11/11/15~~ DLR																																HOLD
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		

QA/QC: ☐Routine ☐Caltrans ☐Legal ☐RWQCB ☐Level IV

TERMS

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

ROSS SURRENCY (Submitter Print Name) — Ross Surrency (Signature)

CUSTODY

Relinquished by: (Signature and Printed Name) ROSS SURRENCY Ross Surrency	Date: 11/11/15	Time: 1410	Received by: (Signature and Printed Name) FEDEX	Date: 11/11/15	Time: 1410
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:

ADVANCED TECHNOLOGY LABORATORIES

December 01, 2015

John C. Gonzales
TRC
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017
Tel: (818) 772-0965
Fax:(818) 772-1926

ELAP No.: 1838
CSDLAC No.: 10196
ORELAP No.: CA300003
TCEQ No. : T104704502

Re: ATL Work Order Number : 1503885
Client Reference : LAUSD Foshay LC, 231058 000004

Enclosed are the results for sample(s) received on November 11, 2015 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,

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

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BD14-Ea-0.5	1503885-01	Soil	11/11/15 9:20	11/11/15 14:10
BD14-Ea-1	1503885-02	Soil	11/11/15 9:25	11/11/15 14:10
BD14-Eb-0.5	1503885-03	Soil	11/11/15 9:35	11/11/15 14:10
BD14-Eb-1	1503885-04	Soil	11/11/15 9:40	11/11/15 14:10
BD14-Ec-0.5	1503885-05	Soil	11/11/15 9:50	11/11/15 14:10
BD14-Ec-1	1503885-06	Soil	11/11/15 9:55	11/11/15 14:10
BD14-Ed-0.5	1503885-07	Soil	11/11/15 10:10	11/11/15 14:10
BD14-Ed-1	1503885-08	Soil	11/11/15 10:15	11/11/15 14:10
BD14-Ee-0.5	1503885-09	Soil	11/11/15 10:20	11/11/15 14:10
BD14-Ee-1	1503885-10	Soil	11/11/15 10:30	11/11/15 14:10
BD14-Ef-0.5	1503885-11	Soil	11/11/15 10:40	11/11/15 14:10
BD14-Ef-1	1503885-12	Soil	11/11/15 10:45	11/11/15 14:10

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Ea-0.5

Lab ID: 1503885-01

TCLP Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**1.2**	0.050	1	B5K0702	11/25/2015	11/25/15 12:31	

STLC Metals by ICP-AES by EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**50**	1.0	20	B5K0555	11/19/2015	11/19/15 10:14	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Ea-1

Lab ID: 1503885-02

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**94**	1.0	1	B5K0488	11/18/2015	11/18/15 12:31	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Eb-0.5

Lab ID: 1503885-03

STLC Metals by ICP-AES by EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**7.9**	1.0	20	B5K0555	11/19/2015	11/19/15 10:23	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Eb-1

Lab ID: 1503885-04

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**13**	1.0	1	B5K0488	11/18/2015	11/18/15 12:39	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Ec-0.5

Lab ID: 1503885-05

STLC Metals by ICP-AES by EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**10**	1.0	20	B5K0555	11/19/2015	11/19/15 10:25	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Ec-1

Lab ID: 1503885-06

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**18**	1.0	1	B5K0488	11/18/2015	11/18/15 12:40	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Ed-0.5

Lab ID: 1503885-07

TCLP Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**4.2**	0.050	1	B5K0513	11/18/2015	11/18/15 17:16	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Ed-1

Lab ID: 1503885-08

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**440**	1.0	1	B5K0488	11/18/2015	11/18/15 12:43	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 12/01/2015

Client Sample ID BD14-Ee-0.5

Lab ID: 1503885-09

TCLP Metals by ICP-AES EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.32**	0.050	1	B5K0702	11/25/2015	11/25/15 12:39	

STLC Metals by ICP-AES by EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**20**	1.0	20	B5K0555	11/19/2015	11/19/15 10:27	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Ee-1

Lab ID: 1503885-10

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**520**	1.0	1	B5K0488	11/18/2015	11/18/15 12:44	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 12/01/2015

Client Sample ID BD14-Ef-0.5

Lab ID: 1503885-11

STLC Metals by ICP-AES by EPA 6010B **Analyst: RR**

Analyte	Result (mg/L)	PQL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**44**	1.0	20	B5K0555	11/19/2015	11/19/15 10:30	

Certificate of Analysis

TRC		Project Number :	LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250		Report To :	John C. Gonzales
Los Angeles , CA 90017		Reported :	12/01/2015

Client Sample ID BD14-Ef-1

Lab ID: 1503885-12

Total Metals by ICP-AES EPA 6010B

Analyst: RR

Analyte	Result (mg/kg)	PQL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**21**	1.0	1	B5K0488	11/18/2015	11/18/15 12:50	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 12/01/2015

QUALITY CONTROL SECTION

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

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5K0488 - EPA 3050B_S									
Blank (B5K0488-BLK1)				Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	ND	1.0			NR				
LCS (B5K0488-BS1)				Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	45.9845	1.0	50.0000		92.0	80 - 120			
Duplicate (B5K0488-DUP1)		**Source: 1503885-02**		Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	98.3570	1.0		94.1700	NR		4.35	20	
Matrix Spike (B5K0488-MS1)		**Source: 1503885-02**		Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	253.916	1.0	125.000	94.1700	128	35 - 129			
Matrix Spike Dup (B5K0488-MSD1)		**Source: 1503885-02**		Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	175.944	1.0	125.000	94.1700	65.4	35 - 129	36.3	20	R

Certificate of Analysis

TRC	Project Number : LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 12/01/2015

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5K0513 - EPA 3010A_S									
Blank (B5K0513-BLK1)				Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	ND	0.050			NR				
Blank (B5K0513-BLK2)				Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	ND	0.050			NR				
LCS (B5K0513-BS1)				Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	0.973002	0.050	1.00000		97.3	80 - 120			
Duplicate (B5K0513-DUP1)		**Source: 1503885-07**		Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	4.25711	0.050		4.17784	NR		1.88	20	
Duplicate (B5K0513-DUP2)		**Source: 1503747-52**		Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	0.047859	0.050		0.045159	NR		5.80	20	
Matrix Spike (B5K0513-MS1)		**Source: 1503885-07**		Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	6.01919	0.050	2.50000	4.17784	73.7	77 - 121			M1
Matrix Spike (B5K0513-MS2)		**Source: 1503747-52**		Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	2.23474	0.050	2.50000	0.045159	87.6	77 - 121			
Matrix Spike Dup (B5K0513-MSD1)		**Source: 1503885-07**		Prepared: 11/18/2015 Analyzed: 11/18/2015					
Lead	6.08652	0.050	2.50000	4.17784	76.3	77 - 121	1.11	20	M1

Certificate of Analysis

TRC	Project Number : LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 12/01/2015

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5K0702 - EPA 3010A_S									
Blank (B5K0702-BLK1)				Prepared: 11/25/2015 Analyzed: 11/25/2015					
Lead	ND	0.050			NR				
LCS (B5K0702-BS1)				Prepared: 11/25/2015 Analyzed: 11/25/2015					
Lead	0.943459	0.050	1.00000		94.3	80 - 120			
Duplicate (B5K0702-DUP1)		**Source: 1503885-01**		Prepared: 11/25/2015 Analyzed: 11/25/2015					
Lead	1.23228	0.050		1.18102	NR		4.25	20	
Matrix Spike (B5K0702-MS1)		**Source: 1503885-01**		Prepared: 11/25/2015 Analyzed: 11/25/2015					
Lead	3.27818	0.050	2.00000	1.18102	105	77 - 121			
Matrix Spike Dup (B5K0702-MSD1)		**Source: 1503885-01**		Prepared: 11/25/2015 Analyzed: 11/25/2015					
Lead	3.44590	0.050	2.00000	1.18102	113	77 - 121	4.99	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 12/01/2015

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

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B5K0555 - STLC_S Extraction									
Blank (B5K0555-BLK1)				Prepared: 11/19/2015 Analyzed: 11/19/2015					
Lead	ND	1.0			NR				
LCS (B5K0555-BS1)				Prepared: 11/19/2015 Analyzed: 11/19/2015					
Lead	1.92864		2.00000		96.4	80 - 120			
Duplicate (B5K0555-DUP1)		**Source: 1503885-01**		Prepared: 11/19/2015 Analyzed: 11/19/2015					
Lead	50.7708	1.0		50.2353	NR		1.06	20	
Matrix Spike (B5K0555-MS1)		**Source: 1503885-01**		Prepared: 11/19/2015 Analyzed: 11/19/2015					
Lead	51.2843		2.50000	50.2353	42.0	44 - 130			M1
Matrix Spike Dup (B5K0555-MSD1)		**Source: 1503885-01**		Prepared: 11/19/2015 Analyzed: 11/19/2015					
Lead	52.1331		2.50000	50.2353	75.9	44 - 130	1.64	20	

Certificate of Analysis

TRC	Project Number : LAUSD Foshay LC, 231058 000004
707 Wilshire Blvd., Suite 3250	Report To : John C. Gonzales
Los Angeles , CA 90017	Reported : 12/01/2015

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.
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)
TX1	TX-NELAP (TCEQ)

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.

APPENDIX C

INVESTIGATION DERVIVED WASTE MANIFEST

NO. 710970

NON-HAZARDOUS WASTE DATA FORM

BESI # 254963

GENERATOR

Generator's Name and Mailing Address
LOS ANGELES UNIFIED SCHOOL DISTRICT
333 S. BEAUDRY AVE. 28TH FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - FOSHAY LEARNING CENTER
3751 S. HARVARD BLVD.
LOS ANGELES, CA 90018

Generator's Phone: 213-241-6242

Container type removed from site:
XX ☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 001

Container type transported to receiving facility:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 001 Volume 55 gallons

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS SITE INVESTIGATION

COMPONENTS OF WASTE	PPM	%
1. ASPHALT		70-90%
2. DECON WATER		5-15%
3. SOIL		5-15%
4.		

Waste Profile 070137747-9842 PROPERTIES: pH 7-10 ☐ SOLID XX ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: _____

Generator Printed/Typed Name: ERIC Longenecker AS AGENT FOR LAUSD | Signature | Month 5 | Day 29 | Year 15

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE | Phone# 949-460-5200

Transporter 1 Printed/Typed Name: Frank Torres | Signature | Month 5 | Day 29 | Year 15

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name | Phone#

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
U.S. ECOLOGY, NEVADA OPERATIONS
HIGHWAY 95, 11 MILES S. OF BEATTY
BEATTY, NV 89003

Phone# 775-553-2203

Printed/Typed Name: Ann Bernudez | Signature | Month 06 | Day 03 | Year 15

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

3751SHAR
1170955

APPENDIX D

SOIL REMOVAL REPORT

Soil Removal Report

Site: Foshay Learning Center
3751 South Harvard Boulevard
Los Angeles, California 90018

Prepared for

Los Angeles Unified School District

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

February 26, 2016

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

Signatures

This Soil Removal Report was prepared under the supervision of the following professionals.

Jim Goepel
Project Manager

Pete Shair, PG
Project Geologist

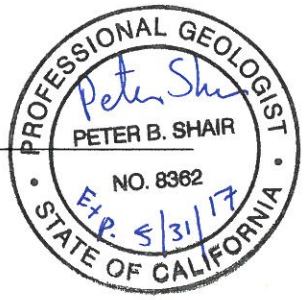


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   3.2 Backfill and Restoration.....3-4
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Figure 2 Site Plan
Figure 3 Excavation Detail Map-Arsenic
Figure 4 Excavation Detail Map-Lead

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Table 1 Soil Analytical Results

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Appendix B Laboratory Analytical Data
Appendix C Waste Manifests
Appendix D Imported Soil Load List
Appendix E ProUCL Printout for Lead

List of Abbreviations and Acronyms

bgs	below ground surface
EPA	United States Environmental Protection Agency
ft	foot or feet
ICS	Innovative Construction Solutions
LAUSD	Los Angeles Unified School District
mg/L	milligrams per liter
mg/kg	milligrams per kilogram
RCRA	Resources Conservation and Recovery Act
Site	Foshay Learning Center
STLC	Soluable Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
UCL	Upper Confidence Limit
USA	Underground Service Alert

1. Introduction

Parsons has prepared this Soil Removal Report on behalf of the Los Angeles Unified School District (LAUSD). This report summarizes soil removal activities at the Foshay Learning Center at 3751 South Harvard Boulevard in Los Angeles, California (Site). The scope involved the removal of lead and arsenic-impacted near-surface soil, landscape restoration, and submittal of this Soil Removal Report to LAUSD. The work occurred when school was closed to students for winter break.

LAUSD contracted with TRC Solutions to assess conditions in soil prior to planned school renovations. The assessment identified three areas in which concentrations of arsenic or lead in exposed soil exceeded acceptable levels for a school site (see Appendix A). Per the request of LAUSD, soil was excavated and disposed offsite from three areas at the Site. Soil was removed from an aerial footprint of approximately 1,041 square feet in three locations. Soil was initially excavated and replaced at the following three discrete areas;

1) A 3 foot (ft) by 3 ft area in the northwest portion of the grass field on the playground in the northwest portion of the Site.
2) Facing South Harvard Boulevard, an approximately 72 ft by 6 ft area on the east side of Building 14, south of the walkway.
3) Facing South Harvard Boulevard, an approximately 64 ft by 5 ft area on the east side of Building 14, north of the walkway.

Subsequently step-out and step-down excavations were completed based on the results of the initial confirmation samples. Additional details regarding the final dimensions of the excavations are discussed below.

Approximately 58 cubic yards of lead-impacted California-hazardous (i.e., non-Resource Conservation and Recovery [RCRA] hazardous) soil were removed east of Building 14. This includes 0.33 cubic yards of nonhazardous soil from the grass field comingled in as the cost of a short load exceeds the extra disposal cost. The areas were backfilled with clean soil, and landscaping was replaced.

Parsons initially collected 20 confirmation soil samples (8 sidewall samples, 9 bottom samples, and three duplicate samples), along the eastern side of Building 14 as agreed upon in the field with a representative from LAUSD based on the encountered field conditions using the "Sampling Detail Insert" (Appendix A) provided by the District as a guide. Based on the initial results Parsons subsequently analyzed an additional 5 samples (4 sidewalls and 1 bottom), In addition, five confirmation soil samples were collected around the localized soil-arsenic removal area at boring location B3 (one bottom sample and four sidewall samples).

2. Pre-field Activities

The proposed excavation areas were marked in white paint on December 23, 2015. Underground Services Alert (USA) was notified a minimum of 48 hours prior to initiating soil excavation. Also prior to soil excavation, on December 28, 2015, the proposed excavation areas were cleared for underground utilities and other potential subsurface structures by GeoVision, Inc., a licensed geophysical survey contractor based in Corona, California. All subsurface structures identified by GeoVision were marked on the ground with spray paint.

3. Soil Removal Activities

Soil removal activities were initiated on December 28, 2015. Parsons supervised Innovative Construction Solutions, Inc. (ICS) who operated the equipment required to remove bushes that were within the excavation footprints, and excavate and transport soil at the Site.

Soil excavation activities were conducted between December 28, 2015 and January 4, 2016. Placement of clean backfill soil into the excavation areas was conducted on January 4 and 7, 2016. Landscape restoration activities occurred on January 18, 2016.

Initial soil excavation consisted of the removal of lead- or arsenic-impacted soil to a depth of 18 inches below ground surface (bgs) as requested by LAUSD.

Three discrete areas were excavated (Figure 2);

1) A 3 ft by 3 ft area (Area 1) in the northwest portion of the grass field on the playground in the northwest portion of the Site. This is at soil sample location B3 which was previously collected by TRC. At this B3 sample location, TRC reported that arsenic was previously detected at 20.20 milligrams per kilogram (mg/kg) at 0.5 ft bgs and 4.08 mg/kg at 1 ft bgs. A waste characterization sample was collected in September 2015, and concentrations of 64 mg/kg lead, 2.9 mg/L soluble threshold limit concentration (STLC) for lead, and 3.1 J mg/kg arsenic, and 1.9 mg/L STLC for arsenic were detected at B3 at 0.5 ft bgs.

2) An approximately 544 square foot area on the east side of Building 14, south of the main steps/walkway (Area 2).

3) An approximately 488 square foot area on the east side of Building 14, north of the main steps/walkway (Area 3).

Confirmation soil samples were collected from the sidewalls and bottom of each excavated area. Samples were packed in laboratory-prepared glassware, stored in coolers with ice, and shipped to the laboratory under chain of custody procedures. Soil samples were analyzed for arsenic and lead by United States Environmental Protection Agency (EPA) Method 6010. Analytical results are summarized in Table 1. Laboratory analytical data are included in Appendix B.

Excavation of Area 1 was conducted by hand digging performed by ICS under the supervision of a Parsons geologist. The excavation was completed as a 3 ft by 3 ft area to the depth of 1.5 feet bgs on December 28, 2015. Samples were collected from each sidewall at 1 foot bgs, and from the bottom of the excavation at 1.5 feet bgs (Figure 3).

Excavation of Areas 2 and 3 were completed through a combination of hand and mechanical digging methods to a maximum depth of 2.5 feet. Some areas could not be excavated to the total depth of 2.5 feet bgs due to obstructions such as tree roots, the building footing, and utility and drain pipes (Figure 4). Based on LAUSD review of the initial bottom and sidewall sampling lead data, LAUSD requested additional excavation at several locations to remove additional

lead-impacted soil above concentrations of concern. Four sidewall soil samples (S-Sidewall-1, S-Sidewall-4, N-Sidewall-1 and N-Sidewall-4) were collected after the additional excavation was performed. One bottom sample N-Bottom-5 required additional vertical soil removal and step down sampling to 2.5 feet bgs.

Waste characterization to support disposal was conducted based upon analytical results from samples collected prior to implementation of the excavation. The samples were analyzed for lead and arsenic using EPA Method 6010B. In addition, extractable lead was determined using the soluble threshold limit concentration (STLC) and toxicity characteristic leaching procedure (TCLP). Based on the analytical results from samples collected, the lead-impacted soil was characterized as non-RCRA hazardous waste. The small volume of arsenic-impacted soil (approximately 0.5 cubic yards) was combined with the lead-impacted waste for transportation and disposal for efficiency of waste handling.

A total of approximately 80.1 tons of soil was removed during the excavation at the Site identified in Figure 2. Waste manifests and weight tickets are provided in Appendix C. The excavated soil was temporarily stockpiled prior to loading and transport off-site. Transportation of the soil was provided by Rust and Sons, to South Yuma County Landfill in Arizona. A total of five trucks transported soils from the Site to this landfill. Materials characterized as non-RCRA hazardous were transported under Uniform Hazardous Waste Manifest. All material was managed as required by local, state, and federal guidance.

3.1 Soil Analytical Results

The soil analytical results are discussed in the following subsections.

Arsenic

The confirmation sampling for arsenic in Area 1 indicates that a maximum concentration of 3.6 mg/kg arsenic was detected at sample location B3-Bottom at a depth of 1.5 ft bgs (Table 1 and Appendix B). All confirmation samples were below the action level of 12 mg/kg, and no additional excavation was required.

Confirmation sample results indicate that remaining concentrations of arsenic in soil are less than or equal to 3.6 mg/kg. The concentrations of up to 20.2 mg/kg detected during previous assessments of this area have been removed and appropriately disposed of offsite.

Lead:

The initial confirmation sampling for lead in Areas 2 and 3 indicate that a maximum concentration of 330 mg/kg lead was detected at sample location N-Bottom-5. Additional vertical excavation was conducted around this location to remove the impacted soil to a total depth of 2.5 ft bgs. The confirmation sample taken below this location N-Bottom-5d2.5 collected from the bottom of the excavation after the additional excavation was completed, had a concentration of 3.7 mg/kg lead.

Four sidewall samples indicated that additional lateral excavation was required (Table 1 and Appendix B).

- Sample S-Sidewall-1 contained 200 mg/kg lead, and 10 mg/L STLC for lead. The excavation was extended laterally four feet to the east from the southern edge of the initial excavation to the mid-point between samples S-Sidewall-1 and S-Sidewall-2 (approximately 16 feet). Sample S-Stepout-1 was collected from the eastern sidewall of this extended area and had a reported 17 mg/kg lead.
- Sample S-Sidewall-3 contained 270 mg/kg lead, and 14 mg/L STLC for lead. The excavation was extended laterally four feet to the east of sample S-Sidewall-3. The southern edge of the additional excavation was in line is S-Bottom-3 and the northern extent was the mid-point between samples S-Sidewall-3 and S-Bottom-4 (approximately 12 feet). Sample S-Stepout-2 was collected from the eastern sidewall of this extended area and contained 96 mg/kg lead.
- Sample N-Sidewall-1 contained 130 mg/kg lead. The excavation was extended four feet to the east from the northern edge of the walkway sample N-Bottom-2 (approximately 21 feet). The sample N-Stepout-1 was collected from the eastern sidewall of this extended area and contained 110 mg/kg lead.
- Sample N-Sidewall-4 contained 140 mg/kg lead. The excavation was extended four feet to the east from the northern edge of the excavation to the mid-point between sample N-Bottom-4 and sample N-Sidewall-3 (approximately 21 feet). The sample N-Stepout-2 was collected from the eastern sidewall of this extended area and contained 63 mg/kg lead.

Confirmation sample results indicate that remaining concentrations of lead in soil are less than or equal to 180 mg/kg. Using the EPA's ProUCL software the 95% upper confidence limit (UCL) was calculated for the data set of the remaining soil samples is 73.88 mg/kg (Appendix E). This indicates that when taken in total the remaining soil has a 95% certainty that the soil is below 73.88 mg/kg which is below the action level of 80 mg/kg for lead. The concentrations of up to 1,100 mg/kg detected during previous assessments of this area have been excavated and appropriately disposed of offsite.

3.2 Backfill and Restoration

Backfill of the excavations occurred on January 4 through January 7, 2016. The LAUSD-approved soil used for backfill was provided by Whittier Fertilizer Company, of Pico Rivera, California. A total of 66 cubic yards of backfill material was placed at the Site (Appendix D).

Backfill was placed in approximately 6 to 12-inch lifts and then moderately compacted using a vibratory plate compactor. Excavated areas were restored to agreed-upon conditions with LAUSD after all excavation, confirmation sampling, backfill, and compaction activities were completed.

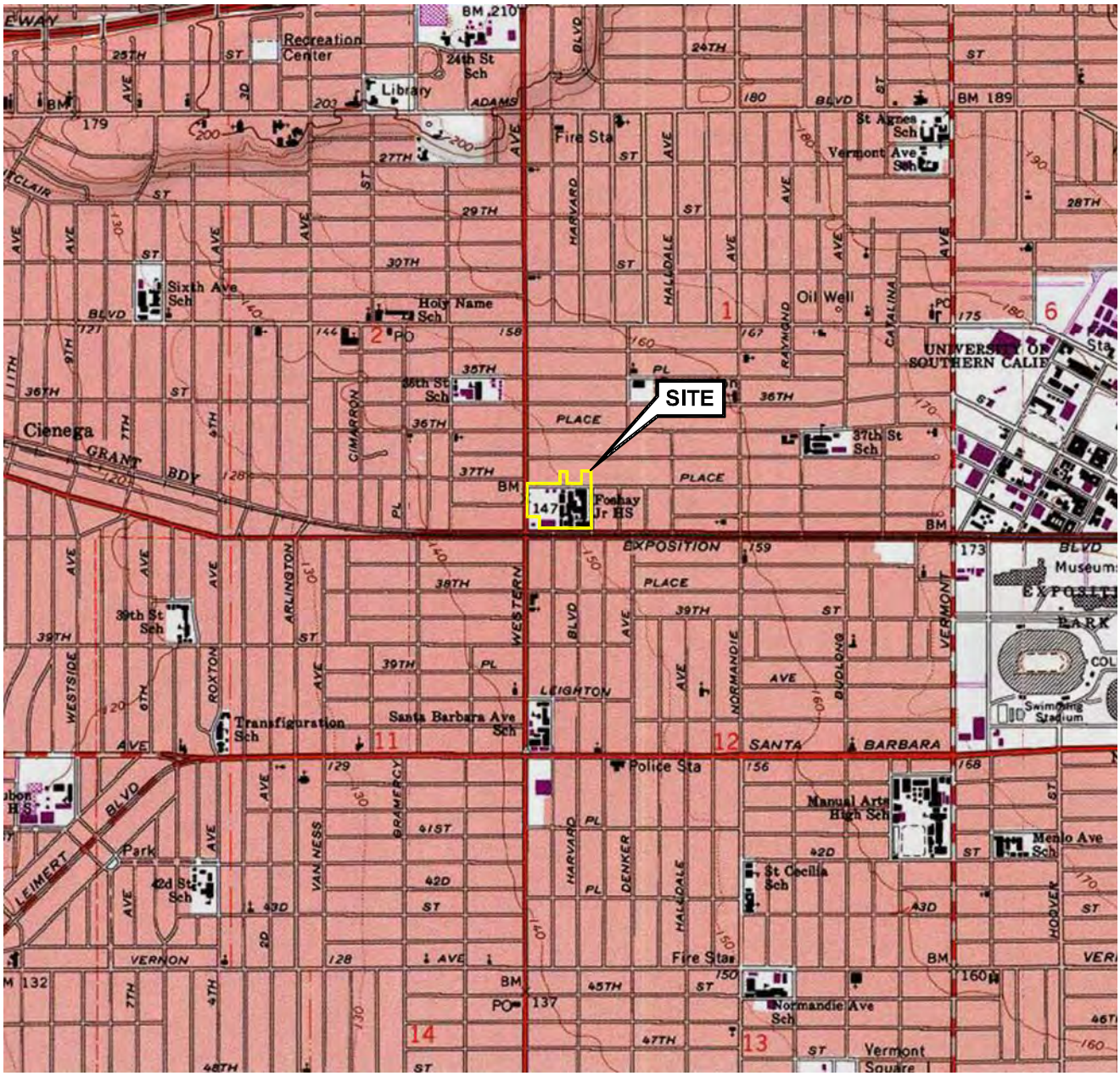
After the backfill was placed and compacted, topsoil and landscaping groundcover materials were utilized to complete restoration activities at the Site.

4. Conclusions and Recommendations

Based on the analytical results of the confirmation samples, the following conclusions are made:

Soil impacted with lead and arsenic was removed in order to limit potential exposure. A total of approximately 80.1 tons of soil was excavated and removed during remediation activities. The majority of the excavation was to 18 inches bgs although localized areas were excavated up to a maximum depth of 2.5 ft bgs. However, as described in this report, total depth in some sections of the excavations was less than 18 inches bgs due to local conditions such as the presence of tree roots. Exposed soil with elevated concentrations of lead or arsenic previously identified has been removed. No further action is necessary with respect to the areas that are the subject of this report.

Figures



SOURCE:

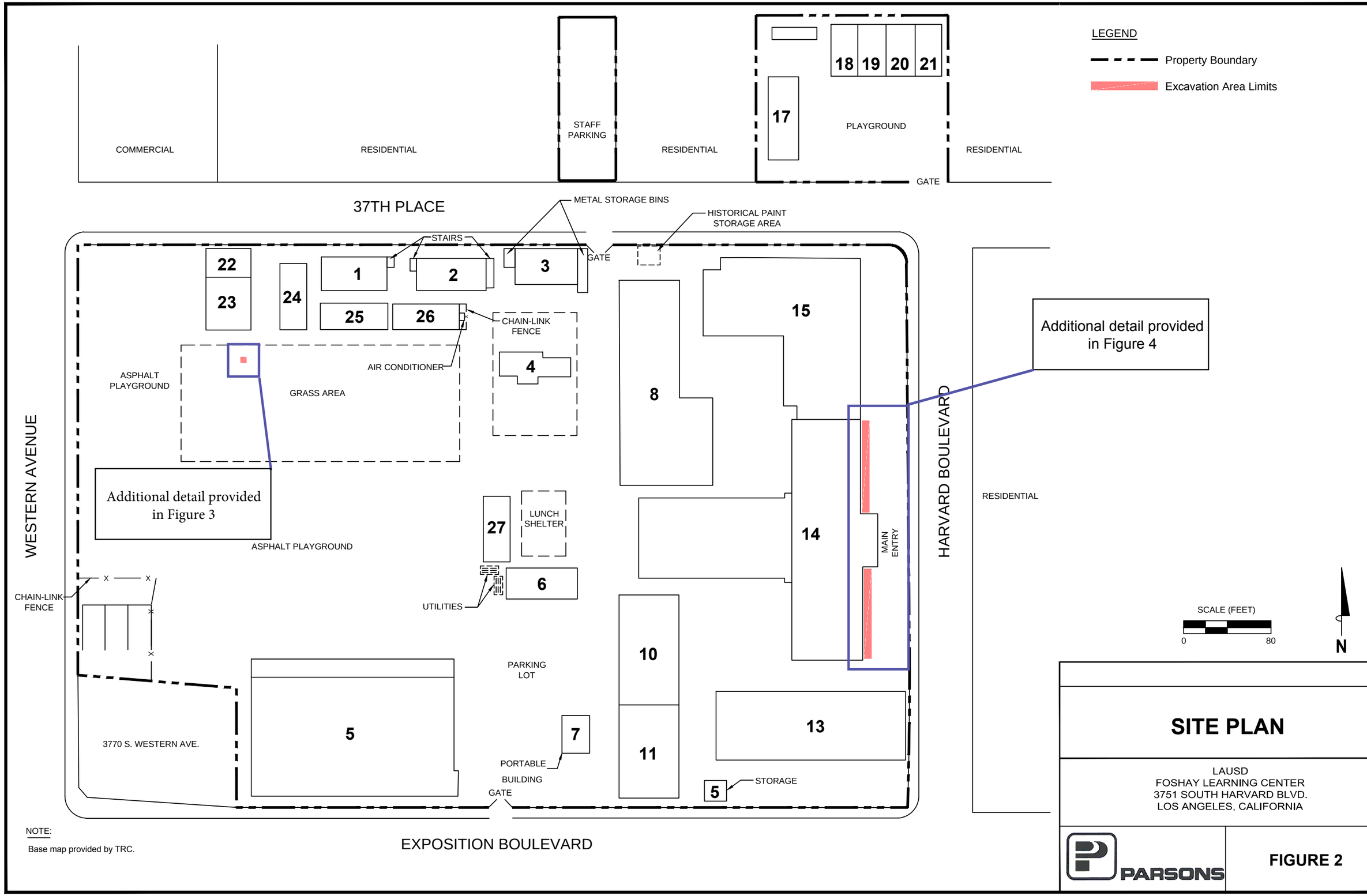
United States Geological Survey
7.5 Minute Topographic Map:
Hollywood Quadrangle
Figure provided by TRC

PARSONS

LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

SITE VICINITY MAP

FIGURE 1



NOTE:

Base map provided by TRC.

SITE PLAN

LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

PARSONS

FIGURE 2

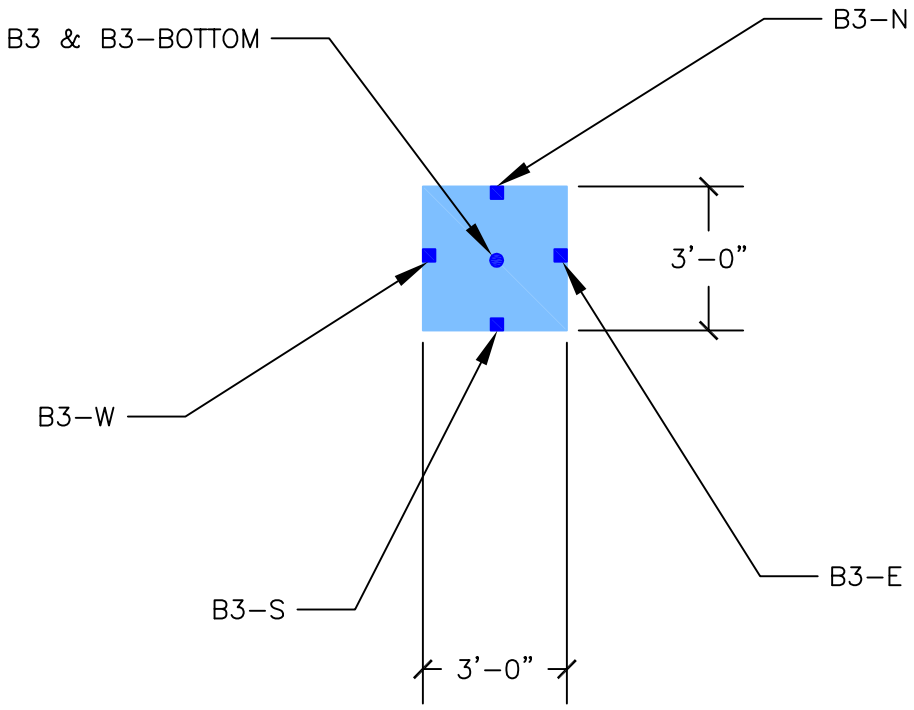
LEGEND

1.5' TOTAL DEPTH

BOTTOM SAMPLE

SIDEWALL SAMPLE

Inset from Grass Area on Figure 2



N

0 4

APPROXIMATE SCALE IN FEET

Figure 3

EXCAVATION DETAIL MAP
ARSENIC
FOSHAY JUNIOR HIGH SCHOOL

3571 SOUTH HARVARD BLVD
LOS ANGELES, CA

PARSONS

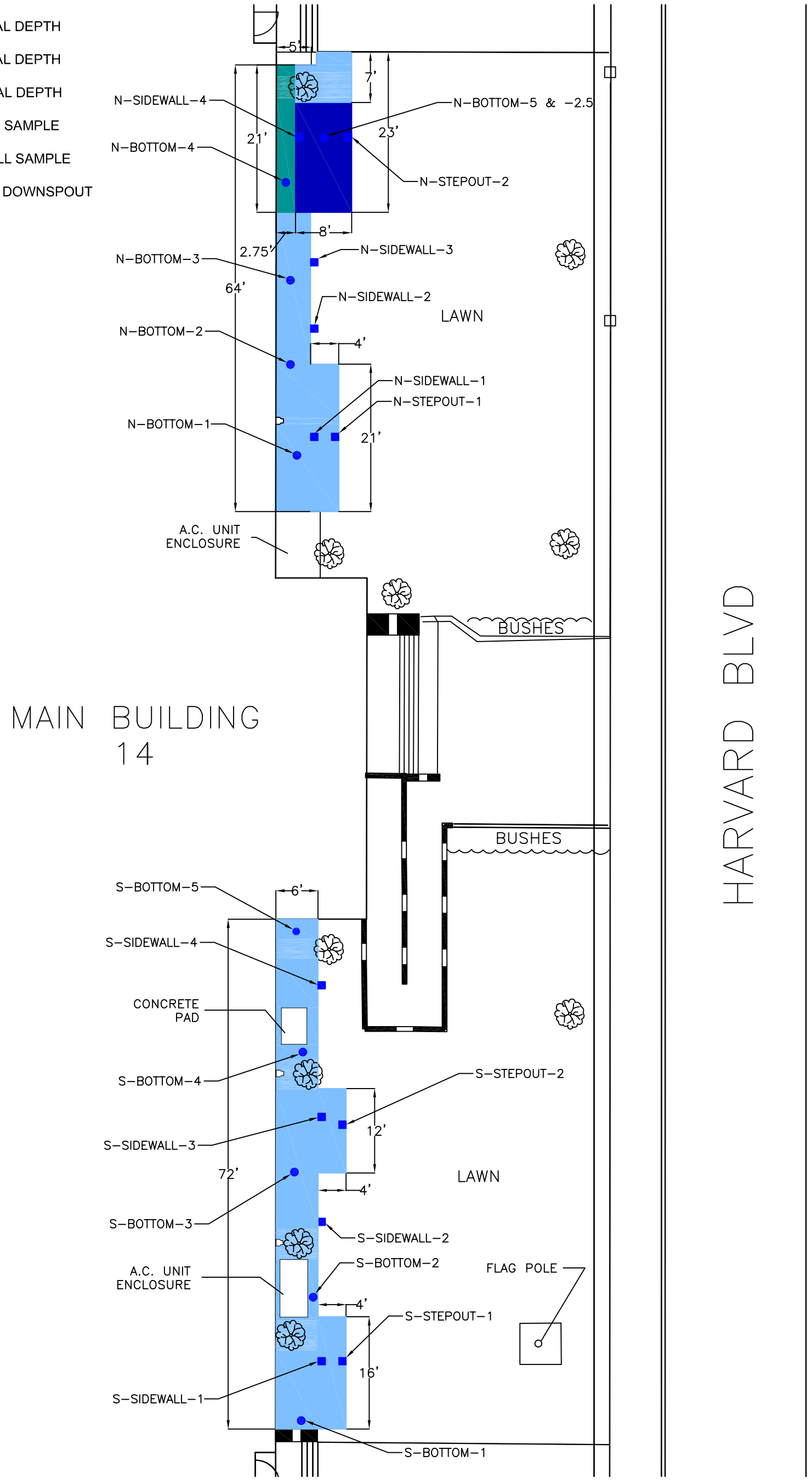
PASADENA, CA

K:\Depts\Dept48\LAUSD\MSA WORK\50000 Series\50074 Foshay Soil Removal\Report\Figures\Figure 3 Excavation Detail Map - Arsenic.dwg

Inset from Figure 2

LEGEND

- 1.5' TOTAL DEPTH
- 1.9' TOTAL DEPTH
- 2.5' TOTAL DEPTH
- BOTTOM SAMPLE
- SIDEWALL SAMPLE
- GUTTER DOWNSPOUT



N

0 12 24

APPROXIMATE SCALE IN FEET

Figure 4

EXCAVATION DETAIL MAP
LEAD
FOSHAY JUNIOR HIGH SCHOOL

3571 SOUTH HARVARD BLVD
LOS ANGELES, CA

PARSONS

PASADENA, CA

K:\Depts\Dept48\LAUSD\MSA WORK\50000 Series\50074 Foshay Soil Removal\Report\Figures\Figure 4 Excavation Detail Map - Lead.dwg

Tables

Table 1
Soil Analytical Data
Foshay Learning Center (Los Angeles, California)

Sample ID	Sample Date	Sample Depth	Lead (mg/kg)	Lead STLC (mg/L)	Arsenic (mg/kg)	Arsenic STLC (mg/L)
B-3	9/30/2015	0.5	64	2.9	3.1 J	1.9
B3-Bottom	12/28/2015	1.5	NA	NA	3.6	NA
B3-W	12/28/2015	1.0	NA	NA	ND<1.5	NA
B3-N	12/28/2015	1.0	NA	NA	2.3 J	NA
B3-E	12/28/2015	1.0	NA	NA	ND<1.5	NA
B3-S	12/28/2015	1.0	NA	NA	2.3 J	NA
S-Sidewall-1	12/28/2015	1.0	200	10	NA	NA
S-Sidewall-1 Dup	12/28/2015	1.0	270	NA	NA	NA
S-Sidewall-2	12/28/2015	1.0	60	NA	NA	NA
S-Sidewall-3	12/28/2015	1.0	270	14	NA	NA
S-Sidewall-4	12/28/2015	1.0	36	NA	NA	NA
S-Bottom-1	12/30/2015	1.5	20	NA	NA	NA
S-Bottom-2	12/30/2015	1.5	50	NA	NA	NA
S-Bottom-3	12/30/2015	1.5	24	NA	NA	NA
S-Bottom-4	12/30/2015	1.5	110	NA	NA	NA
S-Bottom-5	12/30/2015	1.5	180	NA	NA	NA
S-Stepout-1	12/30/2015	1.0	17	NA	NA	NA
S-Stepout-2	12/30/2015	1.0	96	NA	NA	NA
N-Sidewall-1	12/28/2015	1.0	130	NA	NA	NA
N-Sidewall-2	12/28/2015	1.0	73	NA	NA	NA
N-Sidewall-3	12/28/2015	1.0	29	NA	NA	NA
N-Sidewall-4	12/28/2015	1.0	140	NA	NA	NA
N-Sidewall-4 Dup	12/28/2015	1.0	98	NA	NA	NA
N-Bottom-1	12/29/2015	1.5	36	NA	NA	NA
N-Bottom-2	12/29/2015	1.5	95	NA	NA	NA
N-Bottom-3	12/29/2015	1.5	27	NA	NA	NA
N-Bottom-4	12/29/2015	1.9	15	NA	NA	NA
N-Bottom-4 Dup	12/29/2015	2.5	17	NA	NA	NA
N-Bottom-5	12/29/2015	1.5	330	NA	NA	NA
N-Bottom-5	1/4/2016	2.5	3.7	NA	NA	NA
N-Stepout-1	12/30/2015	1.0	110	NA	NA	NA
N-Stepout-2	12/30/2015	1.0	63	NA	NA	NA

NOTES

Lead and arsenic analyzed by EPA Method 6010B

Yellow-highlighted data indicates soil sample location that was removed by subsequent step-out or step-down excavation.

Using USEPA's ProUCL, 95% UCL for lead samples not removed by excavation is 73.88 mg/L.

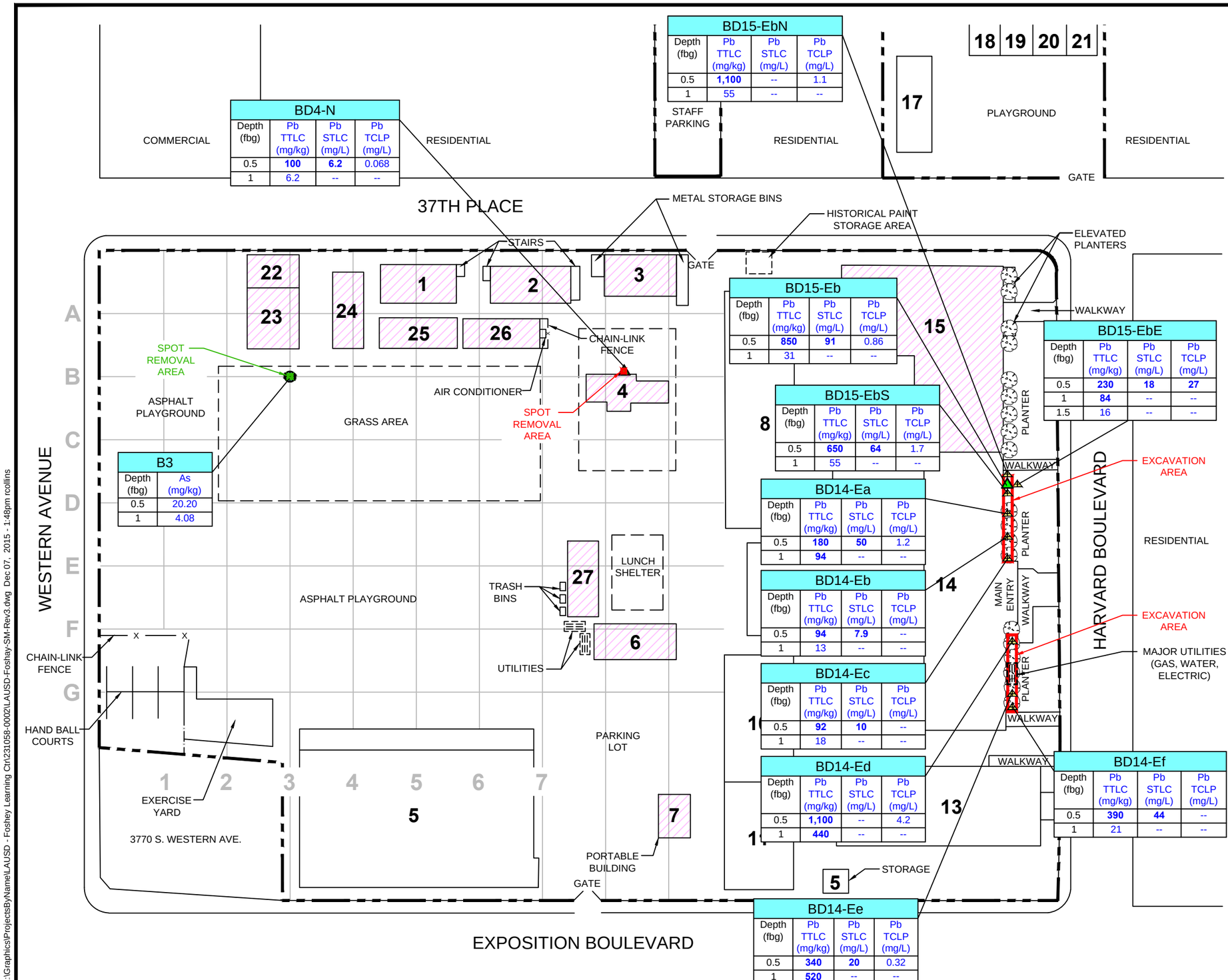
mg/kg = milligrams per kilogram

NA = not analyzed

J = Estimated concentration between the method detection limit and the laboratory reporting limit

ND = Not detected (above method detection limit)

Appendix A.



LEGEND

- Property Boundary
- Building to be Demolished
- Arsenic Boring Locations with Arsenic Concentrations (mg/kg) at Depth (feet)

Sample ID	
Depth (fbg)	As (mg/kg)
0.5	13.70

- OCP, Lead, and Arsenic Boring Locations with Lead Concentrations (mg/kg) (mg/L) at Depth (feet)

Sample ID			
Depth (fbg)	Pb TTLC (mg/kg)	Pb STLC (mg/L)	Pb TCLP (mg/L)
0.5	230	18	27

- OCP/Lead Borings Around Buildings
- Lead Step-Out Borings
- Arsenic Step-Out Boring Locations
- Lead Removal Area

NOTES:

Pb = lead
As = arsenic
fbg = feet below grade
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
TTLC = total threshold limit concentration
STLC = soluble threshold limit concentration
TCLP = toxicity characteristic leaching procedure
-- = not analyzed
OCP = organochlorine pesticide

SCALE (FEET)
0 80

N

PROJECT: 231058

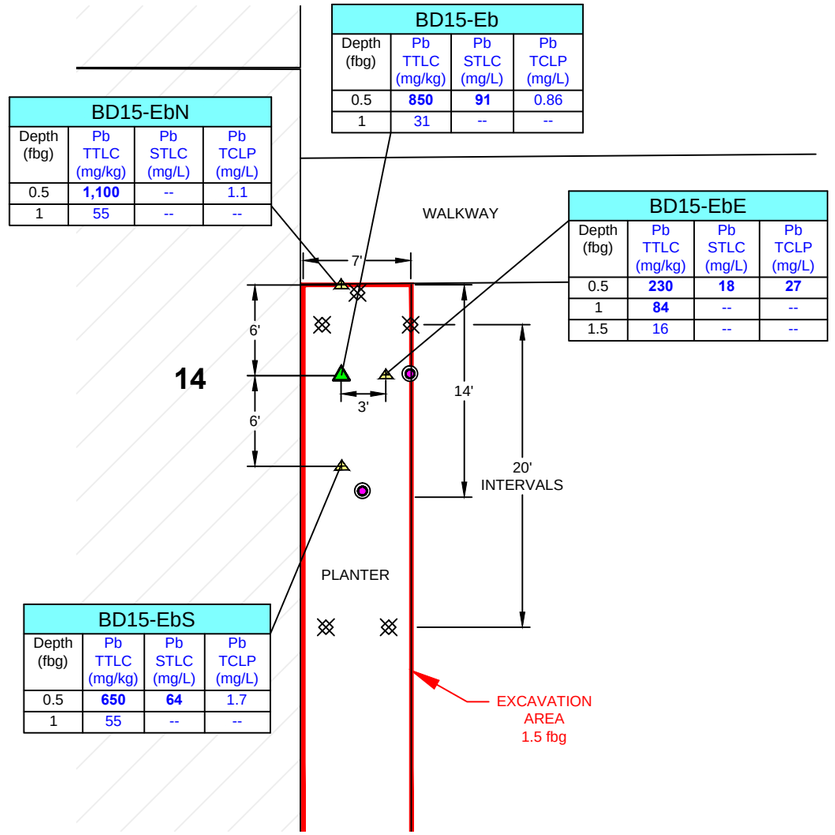
FACILITY:
LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

SOIL REMOVAL AREAS FOR SOIL WITH ELEVATED LEAD AND ARSENIC

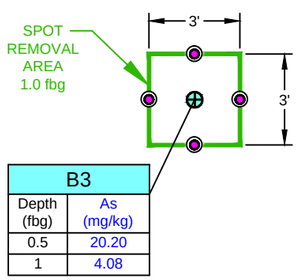
TRC

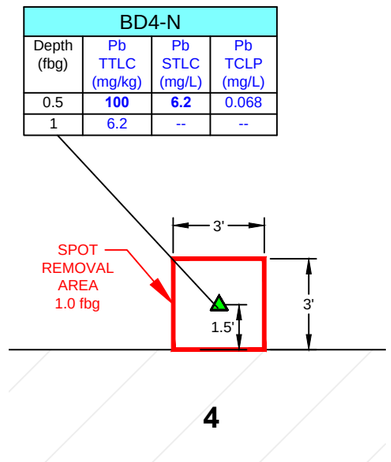
FIGURE 1

MS=1:80 L:\Graphics\Projects\ByName\LAUSD - Foshey Learning Ctr\231058-0002\LAUSD-Foshay-SM-Rev3.dwg Dec 07, 2015 - 1:48pm rcollins



Pb SOIL REMOVAL AREA
Scale 1:10





NOTE:
BD4-N removal not to be completed December 2015.

SPOT REMOVAL AREAS
Scale 1:5

LEGEND

Sample ID	
Depth (fbg)	As (mg/kg)
0.5	13.70

Arsenic Boring Locations with Arsenic Concentrations (mg/kg) at Depth (feet)

Sample ID			
Depth (fbg)	Pb TTLC (mg/kg)	Pb STLC (mg/L)	Pb TCLP (mg/L)
0.5	230	18	27

OCP/Lead Borings Around Buildings with Lead Concentrations (mg/kg) (mg/L) at Depth (feet)

Lead Step-Out Borings

Arsenic Step-Out Boring Locations

Confirmation Sample

Bottom Sample

Lead Removal Area

Arsenic Removal Area

NOTES:

Pb = lead
As = arsenic
fbg = feet below grade
mg/kg = milligrams per kilogram
mg/L = milligrams per liter
TTLC = total threshold limit concentration
STLC = soluble threshold limit concentration
TCLP = toxicity characteristic leaching procedure
-- = not analyzed
OCP = organochlorine pesticide

N

PROJECT: 231058

FACILITY:
LAUSD
FOSHAY LEARNING CENTER
3751 SOUTH HARVARD BLVD.
LOS ANGELES, CALIFORNIA

SOIL REMOVAL AREAS

TRC

FIGURE 2

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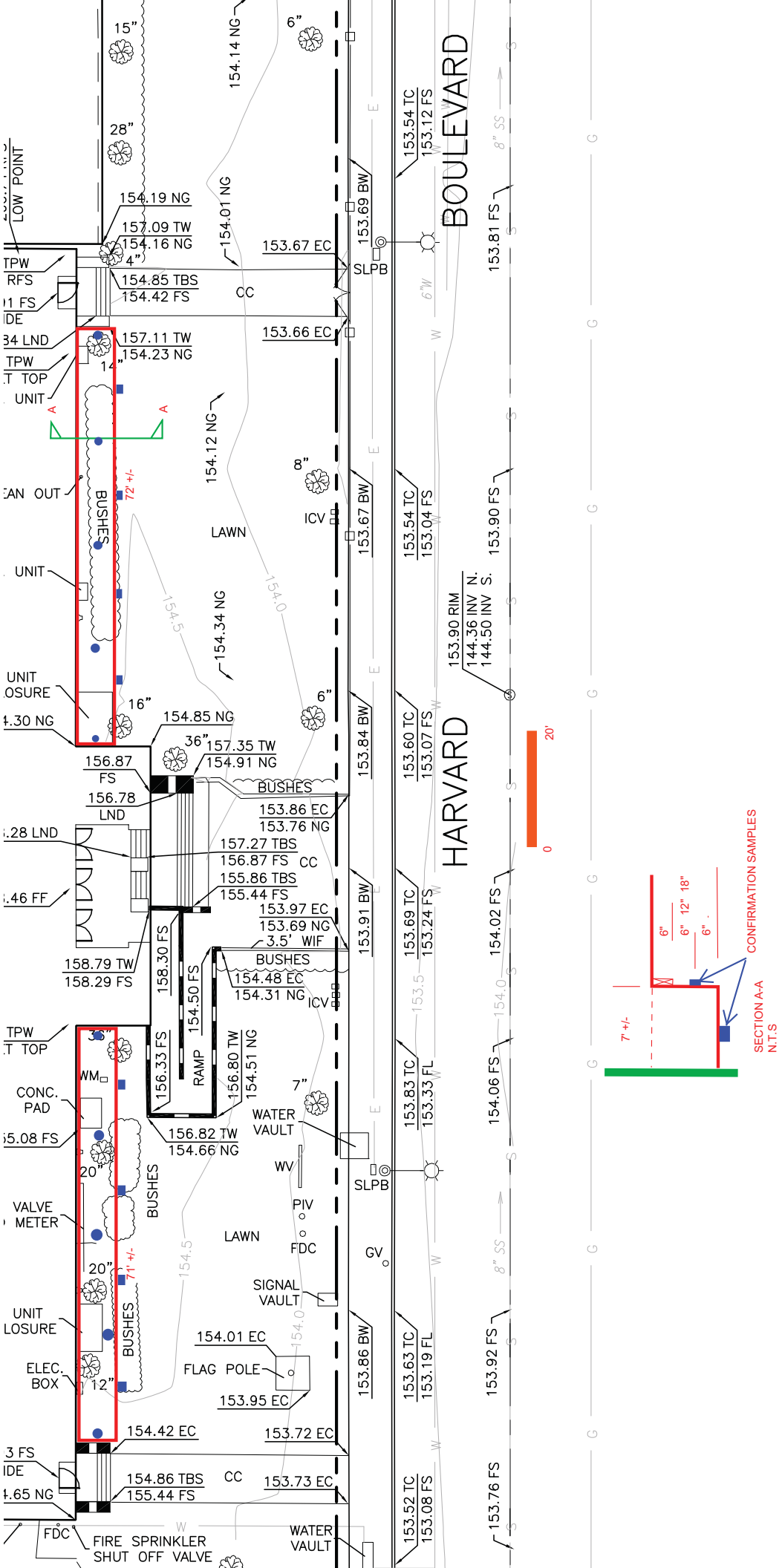


Figure 3
Sampling Detail
Insert

source: TRC

Appendix B.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-122911-1
Client Project/Site: Foshay Learning Center

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Jim Goepel

Authorized for release by:
10/12/2015 4:26:48 PM

Danielle Roberts, Senior Project Manager
(949)261-1022
danielle.roberts@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client Sample Results 5
Method Summary 8
Lab Chronicle 9
QC Sample Results 10
QC Association Summary 25
Definitions/Glossary 28
Certification Summary 29
Chain of Custody 30
Receipt Checklists 31

Sample Summary

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-122911-1	B3	Solid	09/30/15 06:30	09/30/15 14:30

Job ID: 440-122911-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-122911-1

Comments
No additional comments.

Receipt
The sample was received on 9/30/2015 2:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

GC/MS VOA
Method(s) 8260B: Surrogate: 4-Bromofluorobenzene recovery for the following sample was outside the upper control limit: B3 (440-122911-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 440-284109 recovered outside control limits for the following analyte: Bromoform. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 440-284109 recovered above the upper control limit for 2,2-Dichloropropane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: B3 (440-122911-1) and (CCVIS 440-284109/2).

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

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

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

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

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

Organic Prep
Method(s) 3546: The following sample was diluted due to the nature of the sample matrix: B3 (440-122911-1). Elevated reporting limits (RLs) are provided.

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

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

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Client Sample ID: B3
Date Collected: 09/30/15 06:30
Date Received: 09/30/15 14:30

Lab Sample ID: 440-122911-1
Matrix: Solid
Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
1,1,1-Trichloroethane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,1,2,2-Tetrachloroethane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,1,2-Trichloroethane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,1-Dichloroethane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,1-Dichloroethene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
1,1-Dichloropropene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,2,3-Trichlorobenzene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
1,2,3-Trichloropropane	ND		12	1.2	ug/Kg	☼		10/04/15 15:42	1
1,2,4-Trichlorobenzene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
1,2,4-Trimethylbenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,2-Dibromo-3-Chloropropane	ND		6.1	2.4	ug/Kg	☼		10/04/15 15:42	1
1,2-Dichlorobenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,2-Dichloroethane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,2-Dichloropropane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,3,5-Trimethylbenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,3-Dichlorobenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,3-Dichloropropane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
1,4-Dichlorobenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
2,2-Dichloropropane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
2-Chlorotoluene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
4-Chlorotoluene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Benzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Bromobenzene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Bromoform	ND		6.1	2.4	ug/Kg	☼		10/04/15 15:42	1
Bromomethane	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Carbon tetrachloride	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Chlorobenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Chloroethane	ND		6.1	2.4	ug/Kg	☼		10/04/15 15:42	1
Chloroform	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Chloromethane	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
cis-1,2-Dichloroethene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
cis-1,3-Dichloropropene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Dibromomethane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Dichlorodifluoromethane	ND		6.1	2.4	ug/Kg	☼		10/04/15 15:42	1
Ethylbenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Hexachlorobutadiene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Isopropylbenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
m,p-Xylene	ND		4.9	2.4	ug/Kg	☼		10/04/15 15:42	1
Methylene Chloride	ND		24	6.1	ug/Kg	☼		10/04/15 15:42	1
Naphthalene	ND		6.1	2.4	ug/Kg	☼		10/04/15 15:42	1
n-Butylbenzene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
N-Propylbenzene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
o-Xylene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
sec-Butylbenzene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Styrene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
tert-Butylbenzene	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Tetrachloroethene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Toluene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Client Sample ID: B3
Date Collected: 09/30/15 06:30
Date Received: 09/30/15 14:30

Lab Sample ID: 440-122911-1
Matrix: Solid
Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
trans-1,3-Dichloropropene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Trichloroethene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Trichlorofluoromethane	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Vinyl chloride	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
1,2-Dibromoethane (EDB)	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Bromochloromethane	ND		6.1	1.2	ug/Kg	☼		10/04/15 15:42	1
Bromodichloromethane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
Dibromochloromethane	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1
p-Isopropyltoluene	ND		2.4	1.2	ug/Kg	☼		10/04/15 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*115*		*79 - 123*		*10/04/15 15:42*	*1*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*		*10/04/15 15:42*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 120*		*10/04/15 15:42*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		490	180	ug/Kg	☼		10/01/15 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*65 - 140*		*10/01/15 14:06*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	**71**		12	6.2	mg/Kg	☼	09/30/15 20:41	10/01/15 03:16	1
EFH (C10-C40)	**280**		12	6.2	mg/Kg	☼	09/30/15 20:41	10/01/15 03:16	1
ORO (C29-C40)	**180**		12	6.2	mg/Kg	☼	09/30/15 20:41	10/01/15 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*40 - 140*	*09/30/15 20:41*	*10/01/15 03:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	12	6.1	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Arsenic	**3.1**	**J**	3.7	1.8	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Barium	**160**	**F1**	1.8	0.92	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Beryllium	**0.49**	**J**	0.61	0.31	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Cadmium	**0.62**		0.61	0.31	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Chromium	**21**		1.2	0.61	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Cobalt	**8.9**		1.2	0.61	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Copper	**32**		2.5	1.2	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Lead	**64**		2.5	1.2	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Molybdenum	ND		2.5	1.2	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Nickel	**14**		2.5	1.2	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Selenium	ND		3.7	1.8	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Thallium	ND		12	6.1	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Vanadium	**44**		1.2	0.61	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Zinc	**130**		6.1	3.1	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5
Silver	ND		1.8	0.92	mg/Kg	☼	10/01/15 09:15	10/01/15 16:45	5

Client Sample Results

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Client Sample ID: B3
Date Collected: 09/30/15 06:30
Date Received: 09/30/15 14:30

Lab Sample ID: 440-122911-1
Matrix: Solid
Percent Solids: 81.6

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.9		0.10	0.080	mg/L			10/12/15 11:55	20

Method: 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1900		610	300	ug/L	☼	10/05/15 08:28	10/05/15 16:03	20

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.042		0.024	0.014	mg/Kg	☼	10/01/15 22:10	10/03/15 01:36	1

Method Summary

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
Moisture	Percent Moisture	EPA	TAL IRV

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Client Sample ID: B3

Lab Sample ID: 440-122911-1

Date Collected: 09/30/15 06:30

Matrix: Solid

Date Received: 09/30/15 14:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.05 g	500 mL	285071	10/06/15 21:12	CH	TAL IRV
STLC Citrate	Analysis	6010B		20			286200	10/12/15 11:55	VS	TAL IRV
Total/NA	Analysis	Moisture		1			283772	09/30/15 22:08	MMH	TAL IRV

Client Sample ID: B3

Lab Sample ID: 440-122911-1

Date Collected: 09/30/15 06:30

Matrix: Solid

Date Received: 09/30/15 14:30

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.02 g	10 mL	284482	10/04/15 15:42	AL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	283818	10/01/15 14:06	IM	TAL IRV
Total/NA	Prep	3546			7.45 g	1 mL	283662	09/30/15 20:41	KDP	TAL IRV
Total/NA	Analysis	8015B		1	7.45 g	1 mL	283604	10/01/15 03:16	CN	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	283856	10/01/15 09:15	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	284013	10/01/15 16:45	TK	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	284576	10/05/15 08:28	DT	TAL IRV
Total/NA	Analysis	6020		20	2.02 g	50 mL	284760	10/05/15 16:03	RC	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	283904	10/01/15 22:10	DB	TAL IRV
Total/NA	Analysis	7471A		1	0.51 g	50 mL	284349	10/03/15 01:36	DB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-284482/3
Matrix: Solid
Analysis Batch: 284482

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			10/04/15 10:29	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			10/04/15 10:29	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Benzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Bromobenzene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Bromoform	ND		5.0	2.0	ug/Kg			10/04/15 10:29	1
Bromomethane	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Chloroethane	ND		5.0	2.0	ug/Kg			10/04/15 10:29	1
Chloroform	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Chloromethane	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Dibromomethane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			10/04/15 10:29	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			10/04/15 10:29	1
Methylene Chloride	ND		20	5.0	ug/Kg			10/04/15 10:29	1
Naphthalene	ND		5.0	2.0	ug/Kg			10/04/15 10:29	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
o-Xylene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Styrene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-284482/3
Matrix: Solid
Analysis Batch: 284482

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Trichloroethene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			10/04/15 10:29	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			10/04/15 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*79 - 123*		*10/04/15 10:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*		*10/04/15 10:29*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 120*		*10/04/15 10:29*	*1*

Lab Sample ID: LCS 440-284482/4
Matrix: Solid
Analysis Batch: 284482

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	45.9		ug/Kg		92	70 - 130
1,1,1-Trichloroethane	50.0	47.9		ug/Kg		96	65 - 135
1,1,2,2-Tetrachloroethane	50.0	54.7		ug/Kg		109	55 - 140
1,1,2-Trichloroethane	50.0	55.1		ug/Kg		110	65 - 135
1,1-Dichloroethane	50.0	50.7		ug/Kg		101	70 - 130
1,1-Dichloroethene	50.0	47.0		ug/Kg		94	70 - 125
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 130
1,2,3-Trichlorobenzene	50.0	49.8		ug/Kg		100	60 - 130
1,2,3-Trichloropropane	50.0	58.2		ug/Kg		116	60 - 135
1,2,4-Trichlorobenzene	50.0	52.6		ug/Kg		105	70 - 135
1,2,4-Trimethylbenzene	50.0	50.8		ug/Kg		102	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	57.1		ug/Kg		114	50 - 135
1,2-Dichlorobenzene	50.0	51.1		ug/Kg		102	75 - 120
1,2-Dichloroethane	50.0	52.2		ug/Kg		104	60 - 140
1,2-Dichloropropane	50.0	56.2		ug/Kg		112	70 - 130
1,3,5-Trimethylbenzene	50.0	50.3		ug/Kg		101	70 - 125
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	75 - 125
1,3-Dichloropropane	50.0	50.0		ug/Kg		100	70 - 125
1,4-Dichlorobenzene	50.0	51.1		ug/Kg		102	75 - 120
2,2-Dichloropropane	50.0	52.1		ug/Kg		104	60 - 145
2-Chlorotoluene	50.0	51.9		ug/Kg		104	70 - 125
4-Chlorotoluene	50.0	51.1		ug/Kg		102	75 - 125
Benzene	50.0	50.5		ug/Kg		101	65 - 120
Bromobenzene	50.0	48.6		ug/Kg		97	75 - 120
Bromoform	50.0	53.4		ug/Kg		107	55 - 135
Bromomethane	50.0	49.6		ug/Kg		99	60 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-284482/4
Matrix: Solid
Analysis Batch: 284482

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	49.2		ug/Kg		98	65 - 140
Chlorobenzene	50.0	49.1		ug/Kg		98	75 - 120
Chloroethane	50.0	52.3		ug/Kg		105	60 - 140
Chloroform	50.0	51.0		ug/Kg		102	70 - 130
Chloromethane	50.0	48.5		ug/Kg		97	45 - 145
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	56.4		ug/Kg		113	75 - 125
Dibromomethane	50.0	53.2		ug/Kg		106	70 - 130
Dichlorodifluoromethane	50.0	35.0		ug/Kg		70	35 - 160
Ethylbenzene	50.0	50.9		ug/Kg		102	70 - 125
Hexachlorobutadiene	50.0	49.2		ug/Kg		98	60 - 135
Isopropylbenzene	50.0	51.1		ug/Kg		102	75 - 130
m,p-Xylene	50.0	51.6		ug/Kg		103	70 - 125
Methylene Chloride	50.0	50.1		ug/Kg		100	55 - 135
Naphthalene	50.0	53.8		ug/Kg		108	55 - 135
n-Butylbenzene	50.0	52.0		ug/Kg		104	70 - 130
N-Propylbenzene	50.0	52.2		ug/Kg		104	70 - 130
o-Xylene	50.0	50.1		ug/Kg		100	70 - 125
sec-Butylbenzene	50.0	51.7		ug/Kg		103	70 - 125
Styrene	50.0	50.0		ug/Kg		100	75 - 130
tert-Butylbenzene	50.0	50.6		ug/Kg		101	70 - 125
Tetrachloroethene	50.0	45.9		ug/Kg		92	70 - 125
Toluene	50.0	51.0		ug/Kg		102	70 - 125
trans-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	50.0	53.7		ug/Kg		107	70 - 135
Trichloroethene	50.0	50.6		ug/Kg		101	70 - 125
Trichlorofluoromethane	50.0	46.6		ug/Kg		93	60 - 145
Vinyl chloride	50.0	46.6		ug/Kg		93	55 - 135
1,2-Dibromoethane (EDB)	50.0	54.3		ug/Kg		109	70 - 130
Bromochloromethane	50.0	52.8		ug/Kg		106	70 - 135
Bromodichloromethane	50.0	51.4		ug/Kg		103	70 - 135
Dibromochloromethane	50.0	52.2		ug/Kg		104	65 - 140
p-Isopropyltoluene	50.0	49.5		ug/Kg		99	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*79 - 123*
4-Bromofluorobenzene (Surr)	*106*		*79 - 120*
Dibromofluoromethane (Surr)	*106*		*60 - 120*

Lab Sample ID: LCS 440-284482/6
Matrix: Solid
Analysis Batch: 284482

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2520		ug/Kg		101	70 - 130
1,1,1-Trichloroethane	2500	2760		ug/Kg		110	65 - 135
1,1,2,2-Tetrachloroethane	2500	2740		ug/Kg		110	55 - 140
1,1,2-Trichloroethane	2500	2890		ug/Kg		116	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-284482/6
Matrix: Solid
Analysis Batch: 284482

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	2500	2910		ug/Kg		116	70 - 130
1,1-Dichloroethene	2500	2860		ug/Kg		114	70 - 125
1,1-Dichloropropene	2500	2990		ug/Kg		119	70 - 130
1,2,3-Trichlorobenzene	2500	2700		ug/Kg		108	60 - 130
1,2,3-Trichloropropane	2500	3010		ug/Kg		120	60 - 135
1,2,4-Trichlorobenzene	2500	2860		ug/Kg		114	70 - 135
1,2,4-Trimethylbenzene	2500	2920		ug/Kg		117	70 - 125
1,2-Dibromo-3-Chloropropane	2500	2540		ug/Kg		102	50 - 135
1,2-Dichlorobenzene	2500	2670		ug/Kg		107	75 - 120
1,2-Dichloroethane	2500	2790		ug/Kg		111	60 - 140
1,2-Dichloropropane	2500	3000		ug/Kg		120	70 - 130
1,3,5-Trimethylbenzene	2500	2980		ug/Kg		119	70 - 125
1,3-Dichlorobenzene	2500	2830		ug/Kg		113	75 - 125
1,3-Dichloropropane	2500	2830		ug/Kg		113	70 - 125
1,4-Dichlorobenzene	2500	2840		ug/Kg		114	75 - 120
2,2-Dichloropropane	2500	2780		ug/Kg		111	60 - 145
2-Chlorotoluene	2500	2920		ug/Kg		117	70 - 125
4-Chlorotoluene	2500	2920		ug/Kg		117	75 - 125
Benzene	2500	2860		ug/Kg		115	65 - 120
Bromobenzene	2500	2770		ug/Kg		111	75 - 120
Bromoform	2500	2700		ug/Kg		108	55 - 135
Bromomethane	2500	2160		ug/Kg		86	60 - 145
Carbon tetrachloride	2500	2820		ug/Kg		113	65 - 140
Chlorobenzene	2500	2820		ug/Kg		113	75 - 120
Chloroethane	2500	2570		ug/Kg		103	60 - 140
Chloroform	2500	2820		ug/Kg		113	70 - 130
Chloromethane	2500	2360		ug/Kg		95	45 - 145
cis-1,2-Dichloroethene	2500	2840		ug/Kg		114	70 - 125
cis-1,3-Dichloropropene	2500	3100		ug/Kg		124	75 - 125
Dibromomethane	2500	2680		ug/Kg		107	70 - 130
Dichlorodifluoromethane	2500	1450		ug/Kg		58	35 - 160
Ethylbenzene	2500	2950		ug/Kg		118	70 - 125
Hexachlorobutadiene	2500	2700		ug/Kg		108	60 - 135
Isopropylbenzene	2500	2780		ug/Kg		111	75 - 130
m,p-Xylene	2500	3000		ug/Kg		120	70 - 125
Methylene Chloride	2500	2810		ug/Kg		112	55 - 135
Naphthalene	2500	2600		ug/Kg		104	55 - 135
n-Butylbenzene	2500	2900		ug/Kg		116	70 - 130
N-Propylbenzene	2500	3030		ug/Kg		121	70 - 130
o-Xylene	2500	2820		ug/Kg		113	70 - 125
sec-Butylbenzene	2500	2780		ug/Kg		111	70 - 125
Styrene	2500	3000		ug/Kg		120	75 - 130
tert-Butylbenzene	2500	2930		ug/Kg		117	70 - 125
Tetrachloroethene	2500	2890		ug/Kg		116	70 - 125
Toluene	2500	3000		ug/Kg		120	70 - 125
trans-1,2-Dichloroethene	2500	2940		ug/Kg		118	70 - 125
trans-1,3-Dichloropropene	2500	2940		ug/Kg		118	70 - 135
Trichloroethene	2500	2850		ug/Kg		114	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-284482/6
Matrix: Solid
Analysis Batch: 284482

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	2500	2430		ug/Kg		97	60 - 145
Vinyl chloride	2500	1080	*	ug/Kg		43	55 - 135
1,2-Dibromoethane (EDB)	2500	2850		ug/Kg		114	70 - 130
Bromochloromethane	2500	2780		ug/Kg		111	70 - 135
Bromodichloromethane	2500	2760		ug/Kg		110	70 - 135
Dibromochloromethane	2500	2760		ug/Kg		111	65 - 140
p-Isopropyltoluene	2500	2870		ug/Kg		115	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*114*		*79 - 123*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Dibromofluoromethane (Surr)	*103*		*60 - 120*

Lab Sample ID: LCSD 440-284482/7
Matrix: Solid
Analysis Batch: 284482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	2500	2520		ug/Kg		101	70 - 130	0	20
1,1,1-Trichloroethane	2500	2730		ug/Kg		109	65 - 135	1	20
1,1,2,2-Tetrachloroethane	2500	2910		ug/Kg		116	55 - 140	6	30
1,1,2-Trichloroethane	2500	2940		ug/Kg		118	65 - 135	2	20
1,1-Dichloroethane	2500	2910		ug/Kg		116	70 - 130	0	20
1,1-Dichloroethene	2500	2840		ug/Kg		113	70 - 125	1	20
1,1-Dichloropropene	2500	3020		ug/Kg		121	70 - 130	1	20
1,2,3-Trichlorobenzene	2500	2860		ug/Kg		114	60 - 130	6	20
1,2,3-Trichloropropane	2500	3080		ug/Kg		123	60 - 135	2	25
1,2,4-Trichlorobenzene	2500	2850		ug/Kg		114	70 - 135	0	20
1,2,4-Trimethylbenzene	2500	2910		ug/Kg		116	70 - 125	0	20
1,2-Dibromo-3-Chloropropane	2500	2810		ug/Kg		112	50 - 135	10	30
1,2-Dichlorobenzene	2500	2780		ug/Kg		111	75 - 120	4	20
1,2-Dichloroethane	2500	2760		ug/Kg		110	60 - 140	1	20
1,2-Dichloropropane	2500	3040		ug/Kg		122	70 - 130	1	20
1,3,5-Trimethylbenzene	2500	2960		ug/Kg		118	70 - 125	1	20
1,3-Dichlorobenzene	2500	2860		ug/Kg		114	75 - 125	1	20
1,3-Dichloropropane	2500	2860		ug/Kg		114	70 - 125	1	20
1,4-Dichlorobenzene	2500	2890		ug/Kg		116	75 - 120	2	20
2,2-Dichloropropane	2500	2770		ug/Kg		111	60 - 145	1	20
2-Chlorotoluene	2500	2920		ug/Kg		117	70 - 125	0	20
4-Chlorotoluene	2500	2890		ug/Kg		116	75 - 125	1	20
Benzene	2500	2890		ug/Kg		116	65 - 120	1	20
Bromobenzene	2500	2790		ug/Kg		111	75 - 120	1	20
Bromoform	2500	2820		ug/Kg		113	55 - 135	4	25
Bromomethane	2500	2260		ug/Kg		90	60 - 145	5	20
Carbon tetrachloride	2500	2830		ug/Kg		113	65 - 140	0	20
Chlorobenzene	2500	2790		ug/Kg		112	75 - 120	1	20
Chloroethane	2500	2580		ug/Kg		103	60 - 140	0	25
Chloroform	2500	2820		ug/Kg		113	70 - 130	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-284482/7
Matrix: Solid
Analysis Batch: 284482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane			2500	2300		ug/Kg		92	45 - 145	3	25
cis-1,2-Dichloroethene			2500	2850		ug/Kg		114	70 - 125	0	20
cis-1,3-Dichloropropene			2500	3110		ug/Kg		124	75 - 125	0	20
Dibromomethane			2500	2780		ug/Kg		111	70 - 130	4	20
Dichlorodifluoromethane			2500	1420		ug/Kg		57	35 - 160	2	30
Ethylbenzene			2500	2900		ug/Kg		116	70 - 125	2	20
Hexachlorobutadiene			2500	2820		ug/Kg		113	60 - 135	5	20
Isopropylbenzene			2500	2940		ug/Kg		118	75 - 130	6	20
m,p-Xylene			2500	2970		ug/Kg		119	70 - 125	1	20
Methylene Chloride			2500	2770		ug/Kg		111	55 - 135	1	20
Naphthalene			2500	2890		ug/Kg		116	55 - 135	11	25
n-Butylbenzene			2500	2930		ug/Kg		117	70 - 130	1	20
N-Propylbenzene			2500	2990		ug/Kg		119	70 - 130	1	20
o-Xylene			2500	2910		ug/Kg		116	70 - 125	3	20
sec-Butylbenzene			2500	2940		ug/Kg		118	70 - 125	6	20
Styrene			2500	3000		ug/Kg		120	75 - 130	0	20
tert-Butylbenzene			2500	2910		ug/Kg		116	70 - 125	1	20
Tetrachloroethene			2500	2850		ug/Kg		114	70 - 125	2	20
Toluene			2500	2940		ug/Kg		118	70 - 125	2	20
trans-1,2-Dichloroethene			2500	2870		ug/Kg		115	70 - 125	2	20
trans-1,3-Dichloropropene			2500	2910		ug/Kg		116	70 - 135	1	20
Trichloroethene			2500	2900		ug/Kg		116	70 - 125	1	20
Trichlorofluoromethane			2500	2440		ug/Kg		98	60 - 145	1	25
Vinyl chloride			2500	1090	*	ug/Kg		44	55 - 135	1	25
1,2-Dibromoethane (EDB)			2500	2890		ug/Kg		116	70 - 130	2	20
Bromochloromethane			2500	2860		ug/Kg		114	70 - 135	3	20
Bromodichloromethane			2500	2770		ug/Kg		111	70 - 135	0	20
Dibromochloromethane			2500	2730		ug/Kg		109	65 - 140	1	20
p-Isopropyltoluene			2500	2960		ug/Kg		118	75 - 125	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*79 - 123*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*
Dibromofluoromethane (Surr)	*104*		*60 - 120*

Lab Sample ID: 440-122755-A-8 MS
Matrix: Solid
Analysis Batch: 284482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.8	43.8		ug/Kg		88	65 - 145
1,1,1-Trichloroethane	ND		49.8	48.4		ug/Kg		97	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.8	55.6		ug/Kg		112	40 - 160
1,1,2-Trichloroethane	ND		49.8	54.0		ug/Kg		108	65 - 140
1,1-Dichloroethane	ND		49.8	50.1		ug/Kg		101	65 - 135
1,1-Dichloroethene	ND		49.8	47.3		ug/Kg		95	65 - 135
1,1-Dichloropropene	ND		49.8	51.3		ug/Kg		103	65 - 135
1,2,3-Trichlorobenzene	ND		49.8	49.3	B	ug/Kg		99	45 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-122755-A-8 MS
Matrix: Solid
Analysis Batch: 284482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		49.8	58.1		ug/Kg		117	50 - 150
1,2,4-Trichlorobenzene	ND		49.8	49.4		ug/Kg		99	50 - 140
1,2,4-Trimethylbenzene	ND		49.8	50.0		ug/Kg		100	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.8	54.1		ug/Kg		109	40 - 150
1,2-Dichlorobenzene	ND		49.8	50.1		ug/Kg		101	70 - 130
1,2-Dichloroethane	ND		49.8	51.2		ug/Kg		103	60 - 150
1,2-Dichloropropane	ND		49.8	55.0		ug/Kg		110	65 - 130
1,3,5-Trimethylbenzene	ND		49.8	50.1		ug/Kg		101	65 - 135
1,3-Dichlorobenzene	ND		49.8	49.2		ug/Kg		99	70 - 130
1,3-Dichloropropane	ND		49.8	52.3		ug/Kg		105	65 - 140
1,4-Dichlorobenzene	ND		49.8	50.3		ug/Kg		101	70 - 130
2,2-Dichloropropane	ND		49.8	52.1		ug/Kg		105	65 - 150
2-Chlorotoluene	ND		49.8	50.4		ug/Kg		101	60 - 135
4-Chlorotoluene	ND		49.8	50.0		ug/Kg		100	65 - 135
Benzene	2.1		49.8	52.3		ug/Kg		101	65 - 130
Bromobenzene	ND		49.8	48.8		ug/Kg		98	65 - 140
Bromoform	ND		49.8	52.0		ug/Kg		104	50 - 145
Bromomethane	ND		49.8	47.3		ug/Kg		95	60 - 155
Carbon tetrachloride	ND		49.8	49.6		ug/Kg		100	60 - 145
Chlorobenzene	ND		49.8	48.6		ug/Kg		98	70 - 130
Chloroethane	ND		49.8	50.4		ug/Kg		101	60 - 150
Chloroform	ND		49.8	50.1		ug/Kg		101	65 - 135
Chloromethane	ND		49.8	46.4		ug/Kg		93	40 - 145
cis-1,2-Dichloroethene	ND		49.8	49.5		ug/Kg		99	65 - 135
cis-1,3-Dichloropropene	ND		49.8	55.1		ug/Kg		111	70 - 135
Dibromomethane	ND		49.8	52.1		ug/Kg		105	65 - 140
Dichlorodifluoromethane	ND		49.8	34.0		ug/Kg		68	30 - 160
Ethylbenzene	ND		49.8	50.2		ug/Kg		101	70 - 135
Hexachlorobutadiene	ND		49.8	46.6		ug/Kg		94	50 - 145
Isopropylbenzene	ND		49.8	51.2		ug/Kg		103	70 - 145
m,p-Xylene	ND		49.8	51.7		ug/Kg		104	70 - 130
Methylene Chloride	ND		49.8	49.0		ug/Kg		98	55 - 145
Naphthalene	ND		49.8	53.4		ug/Kg		107	40 - 150
n-Butylbenzene	ND		49.8	50.0		ug/Kg		100	55 - 145
N-Propylbenzene	ND		49.8	49.0		ug/Kg		98	65 - 140
o-Xylene	ND		49.8	48.7		ug/Kg		98	65 - 130
sec-Butylbenzene	ND		49.8	49.4		ug/Kg		99	60 - 135
Styrene	ND		49.8	47.6		ug/Kg		96	70 - 140
tert-Butylbenzene	ND		49.8	48.4		ug/Kg		97	60 - 140
Tetrachloroethene	ND		49.8	49.3		ug/Kg		99	65 - 135
Toluene	1.7	J	49.8	51.4		ug/Kg		100	70 - 130
trans-1,2-Dichloroethene	ND		49.8	49.5		ug/Kg		99	70 - 135
trans-1,3-Dichloropropene	ND		49.8	52.4		ug/Kg		105	60 - 145
Trichloroethene	ND		49.8	50.1		ug/Kg		101	65 - 140
Trichlorofluoromethane	ND		49.8	47.7		ug/Kg		96	55 - 155
Vinyl chloride	ND		49.8	46.7		ug/Kg		94	55 - 140
1,2-Dibromoethane (EDB)	ND		49.8	54.0		ug/Kg		109	65 - 140
Bromochloromethane	ND		49.8	51.2		ug/Kg		103	65 - 145

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-122755-A-8 MS
Matrix: Solid
Analysis Batch: 284482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	ND		49.8	50.0		ug/Kg		100	65 - 145
Dibromochloromethane	ND		49.8	50.3		ug/Kg		101	60 - 145
p-Isopropyltoluene	ND		49.8	49.6		ug/Kg		100	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*112*		*79 - 123*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*
Dibromofluoromethane (Surr)	*106*		*60 - 120*

Lab Sample ID: 440-122755-A-8 MSD
Matrix: Solid
Analysis Batch: 284482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	49.2		ug/Kg		98	65 - 145	12	20
1,1,1-Trichloroethane	ND		50.0	50.5		ug/Kg		101	65 - 145	4	20
1,1,2,2-Tetrachloroethane	ND		50.0	61.7		ug/Kg		123	40 - 160	10	30
1,1,2-Trichloroethane	ND		50.0	58.8		ug/Kg		118	65 - 140	8	30
1,1-Dichloroethane	ND		50.0	54.2		ug/Kg		108	65 - 135	8	25
1,1-Dichloroethene	ND		50.0	50.4		ug/Kg		101	65 - 135	6	25
1,1-Dichloropropene	ND		50.0	54.3		ug/Kg		109	65 - 135	6	20
1,2,3-Trichlorobenzene	ND		50.0	56.1	B	ug/Kg		112	45 - 145	13	30
1,2,3-Trichloropropane	ND		50.0	64.0		ug/Kg		128	50 - 150	10	30
1,2,4-Trichlorobenzene	ND		50.0	54.8		ug/Kg		110	50 - 140	10	30
1,2,4-Trimethylbenzene	ND		50.0	53.9		ug/Kg		108	65 - 140	7	25
1,2-Dibromo-3-Chloropropane	ND		50.0	60.7		ug/Kg		121	40 - 150	12	30
1,2-Dichlorobenzene	ND		50.0	55.9		ug/Kg		112	70 - 130	11	25
1,2-Dichloroethane	ND		50.0	53.5		ug/Kg		107	60 - 150	4	25
1,2-Dichloropropane	ND		50.0	57.3		ug/Kg		115	65 - 130	4	20
1,3,5-Trimethylbenzene	ND		50.0	54.0		ug/Kg		108	65 - 135	7	25
1,3-Dichlorobenzene	ND		50.0	51.8		ug/Kg		104	70 - 130	5	25
1,3-Dichloropropane	ND		50.0	54.1		ug/Kg		108	65 - 140	3	25
1,4-Dichlorobenzene	ND		50.0	54.1		ug/Kg		108	70 - 130	7	25
2,2-Dichloropropane	ND		50.0	54.2		ug/Kg		108	65 - 150	4	25
2-Chlorotoluene	ND		50.0	54.0		ug/Kg		108	60 - 135	7	25
4-Chlorotoluene	ND		50.0	56.1		ug/Kg		112	65 - 135	12	25
Benzene	2.1		50.0	54.7		ug/Kg		105	65 - 130	5	20
Bromobenzene	ND		50.0	54.1		ug/Kg		108	65 - 140	10	25
Bromoform	ND		50.0	56.7		ug/Kg		113	50 - 145	9	30
Bromomethane	ND		50.0	50.2		ug/Kg		100	60 - 155	6	25
Carbon tetrachloride	ND		50.0	51.3		ug/Kg		103	60 - 145	3	25
Chlorobenzene	ND		50.0	53.6		ug/Kg		107	70 - 130	10	25
Chloroethane	ND		50.0	54.4		ug/Kg		109	60 - 150	8	25
Chloroform	ND		50.0	52.9		ug/Kg		106	65 - 135	6	20
Chloromethane	ND		50.0	48.6		ug/Kg		97	40 - 145	5	25
cis-1,2-Dichloroethene	ND		50.0	53.0		ug/Kg		106	65 - 135	7	25
cis-1,3-Dichloropropene	ND		50.0	60.1		ug/Kg		120	70 - 135	9	25
Dibromomethane	ND		50.0	54.0		ug/Kg		108	65 - 140	4	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-122755-A-8 MSD
Matrix: Solid
Analysis Batch: 284482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND		50.0	34.9		ug/Kg		70	30 - 160	3	35
Ethylbenzene	ND		50.0	54.4		ug/Kg		109	70 - 135	8	25
Hexachlorobutadiene	ND		50.0	55.1		ug/Kg		110	50 - 145	17	35
Isopropylbenzene	ND		50.0	53.6		ug/Kg		107	70 - 145	5	25
m,p-Xylene	ND		50.0	55.8		ug/Kg		112	70 - 130	8	25
Methylene Chloride	ND		50.0	51.5		ug/Kg		103	55 - 145	5	25
Naphthalene	ND		50.0	61.1		ug/Kg		122	40 - 150	14	40
n-Butylbenzene	ND		50.0	56.1		ug/Kg		112	55 - 145	12	30
N-Propylbenzene	ND		50.0	58.2		ug/Kg		116	65 - 140	17	25
o-Xylene	ND		50.0	54.5		ug/Kg		109	65 - 130	11	25
sec-Butylbenzene	ND		50.0	53.4		ug/Kg		107	60 - 135	8	25
Styrene	ND		50.0	54.5		ug/Kg		109	70 - 140	14	25
tert-Butylbenzene	ND		50.0	52.7		ug/Kg		105	60 - 140	9	25
Tetrachloroethene	ND		50.0	52.6		ug/Kg		105	65 - 135	7	25
Toluene	1.7	J	50.0	53.1		ug/Kg		103	70 - 130	3	20
trans-1,2-Dichloroethene	ND		50.0	52.5		ug/Kg		105	70 - 135	6	25
trans-1,3-Dichloropropene	ND		50.0	57.5		ug/Kg		115	60 - 145	9	25
Trichloroethene	ND		50.0	52.1		ug/Kg		104	65 - 140	4	25
Trichlorofluoromethane	ND		50.0	49.5		ug/Kg		99	55 - 155	4	25
Vinyl chloride	ND		50.0	47.7		ug/Kg		95	55 - 140	2	30
1,2-Dibromoethane (EDB)	ND		50.0	60.5		ug/Kg		121	65 - 140	11	25
Bromochloromethane	ND		50.0	55.3		ug/Kg		111	65 - 145	8	25
Bromodichloromethane	ND		50.0	53.0		ug/Kg		106	65 - 145	6	20
Dibromochloromethane	ND		50.0	54.6		ug/Kg		109	60 - 145	8	25
p-Isopropyltoluene	ND		50.0	54.1		ug/Kg		108	60 - 140	9	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*79 - 123*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*
Dibromofluoromethane (Surr)	*104*		*60 - 120*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-283818/6
Matrix: Solid
Analysis Batch: 283818

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C12)	ND		400	150	ug/Kg			10/01/15 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*		*10/01/15 11:07*	*1*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 440-283818/10
Matrix: Solid
Analysis Batch: 283818

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1830		ug/Kg		115	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*86*		*65 - 140*

Lab Sample ID: LCSD 440-283818/5
Matrix: Solid
Analysis Batch: 283818

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1830		ug/Kg		114	70 - 135	13	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*69*		*65 - 140*

Lab Sample ID: 440-121892-A-9 MS
Matrix: Solid
Analysis Batch: 283818

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1570	1360		ug/Kg		87	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*76*		*65 - 140*

Lab Sample ID: 440-121892-A-9 MSD
Matrix: Solid
Analysis Batch: 283818

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1600	1720		ug/Kg		108	60 - 140	23	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-283662/1-A
Matrix: Solid
Analysis Batch: 283533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 283662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		5.0	2.5	mg/Kg		09/30/15 15:56	09/30/15 22:28	1
EFH (C10-C40)	ND		5.0	2.5	mg/Kg		09/30/15 15:56	09/30/15 22:28	1
ORO (C29-C40)	ND		5.0	2.5	mg/Kg		09/30/15 15:56	09/30/15 22:28	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-283662/1-A
Matrix: Solid
Analysis Batch: 283533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 283662

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	90		40 - 140	09/30/15 15:56	09/30/15 22:28	1

Lab Sample ID: LCS 440-283662/2-A
Matrix: Solid
Analysis Batch: 283533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 283662

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
DRO (C10-C28)			66.7	51.2		mg/Kg		77	45 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	82		40 - 140

Lab Sample ID: 440-122766-A-1-B MS
Matrix: Solid
Analysis Batch: 283533

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 283662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
DRO (C10-C28)	5.2		67.1	47.8		mg/Kg		64	40 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	79		40 - 140

Lab Sample ID: 440-122766-A-1-C MSD
Matrix: Solid
Analysis Batch: 283533

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 283662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
DRO (C10-C28)	5.2		67.9	40.4		mg/Kg		52	40 - 120	17	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	65		40 - 140

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-283856/1-A ^5
Matrix: Solid
Analysis Batch: 284013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 283856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Arsenic	ND		3.0	1.5	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Barium	ND		1.5	0.74	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Beryllium	ND		0.50	0.25	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Cadmium	ND		0.50	0.25	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Chromium	ND		0.99	0.50	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Cobalt	ND		0.99	0.50	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Copper	ND		2.0	0.99	mg/Kg		10/01/15 09:15	10/01/15 16:40	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-283856/1-A ^5
Matrix: Solid
Analysis Batch: 284013

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 283856

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		2.0	0.99	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Nickel	ND		2.0	0.99	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Selenium	ND		3.0	1.5	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Thallium	ND		9.9	5.0	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Vanadium	ND		0.99	0.50	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Zinc	ND		5.0	2.5	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Silver	ND		1.5	0.74	mg/Kg		10/01/15 09:15	10/01/15 16:40	5
Lead	ND		2.0	0.99	mg/Kg		10/01/15 09:15	10/01/15 16:40	5

Lab Sample ID: LCS 440-283856/2-A ^5
Matrix: Solid
Analysis Batch: 284013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 283856

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	52.9		mg/Kg		106	80 - 120
Arsenic	50.0	52.1		mg/Kg		104	80 - 120
Barium	50.0	51.3		mg/Kg		103	80 - 120
Beryllium	50.0	49.9		mg/Kg		100	80 - 120
Cadmium	50.0	48.7		mg/Kg		97	80 - 120
Chromium	50.0	51.9		mg/Kg		104	80 - 120
Cobalt	50.0	53.0		mg/Kg		106	80 - 120
Copper	50.0	51.1		mg/Kg		102	80 - 120
Molybdenum	50.0	49.7		mg/Kg		99	80 - 120
Nickel	50.0	53.2		mg/Kg		106	80 - 120
Selenium	50.0	46.9		mg/Kg		94	80 - 120
Thallium	50.0	48.5		mg/Kg		97	80 - 120
Vanadium	50.0	50.4		mg/Kg		101	80 - 120
Zinc	50.0	48.8		mg/Kg		98	80 - 120
Silver	25.0	25.4		mg/Kg		101	80 - 120
Lead	50.0	49.4		mg/Kg		99	80 - 120

Lab Sample ID: 440-122911-1 MS
Matrix: Solid
Analysis Batch: 284013

Client Sample ID: B3
Prep Type: Total/NA
Prep Batch: 283856

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	60.7	16.9	F1	mg/Kg	☼	28	75 - 125
Arsenic	3.1	J	60.7	64.5		mg/Kg	☼	101	75 - 125
Barium	160	F1	60.7	250	F1	mg/Kg	☼	144	75 - 125
Beryllium	0.49	J	60.7	60.5		mg/Kg	☼	99	75 - 125
Cadmium	0.62		60.7	55.2		mg/Kg	☼	90	75 - 125
Chromium	21		60.7	88.5		mg/Kg	☼	111	75 - 125
Cobalt	8.9		60.7	70.9		mg/Kg	☼	102	75 - 125
Copper	32		60.7	101		mg/Kg	☼	113	75 - 125
Molybdenum	ND		60.7	57.9		mg/Kg	☼	95	75 - 125
Nickel	14		60.7	77.8		mg/Kg	☼	105	75 - 125
Selenium	ND		60.7	54.9		mg/Kg	☼	90	75 - 125
Thallium	ND		60.7	55.2		mg/Kg	☼	91	75 - 125
Vanadium	44		60.7	115		mg/Kg	☼	117	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-122911-1 MS
Matrix: Solid
Analysis Batch: 284013

Client Sample ID: B3
Prep Type: Total/NA
Prep Batch: 283856

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	130		60.7	200		mg/Kg	☼	117	75 - 125
Silver	ND		30.4	30.3		mg/Kg	☼	100	75 - 125
Lead	64		60.7	120		mg/Kg	☼	92	75 - 125

Lab Sample ID: 440-122911-1 MSD
Matrix: Solid
Analysis Batch: 284013

Client Sample ID: B3
Prep Type: Total/NA
Prep Batch: 283856

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	60.4	17.4	F1	mg/Kg	☼	29	75 - 125	3	20
Arsenic	3.1	J	60.4	66.8		mg/Kg	☼	105	75 - 125	4	20
Barium	160	F1	60.4	239	F1	mg/Kg	☼	126	75 - 125	5	20
Beryllium	0.49	J	60.4	62.0		mg/Kg	☼	102	75 - 125	2	20
Cadmium	0.62		60.4	56.3		mg/Kg	☼	92	75 - 125	2	20
Chromium	21		60.4	88.7		mg/Kg	☼	111	75 - 125	0	20
Cobalt	8.9		60.4	72.9		mg/Kg	☼	106	75 - 125	3	20
Copper	32		60.4	102		mg/Kg	☼	115	75 - 125	1	20
Molybdenum	ND		60.4	59.2		mg/Kg	☼	98	75 - 125	2	20
Nickel	14		60.4	79.3		mg/Kg	☼	108	75 - 125	2	20
Selenium	ND		60.4	56.7		mg/Kg	☼	94	75 - 125	3	20
Thallium	ND		60.4	56.7		mg/Kg	☼	94	75 - 125	3	20
Vanadium	44		60.4	114		mg/Kg	☼	116	75 - 125	1	20
Zinc	130		60.4	197		mg/Kg	☼	113	75 - 125	2	20
Silver	ND		30.2	30.5		mg/Kg	☼	101	75 - 125	1	20
Lead	64		60.4	124		mg/Kg	☼	99	75 - 125	3	20

Lab Sample ID: MB 440-285071/1-A ^20
Matrix: Solid
Analysis Batch: 286200

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10	0.080	mg/L			10/12/15 11:46	20

Lab Sample ID: LCS 440-285071/2-A ^20
Matrix: Solid
Analysis Batch: 286200

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20.0	22.1		mg/L		110	80 - 120

Lab Sample ID: 440-122620-A-1-K MS ^20
Matrix: Solid
Analysis Batch: 286200

Client Sample ID: Matrix Spike
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	ND		20.0	21.0		mg/L		105	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-122620-A-1-K MSD ^20
Matrix: Solid
Analysis Batch: 286200

Client Sample ID: Matrix Spike Duplicate
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	ND		20.0	20.8		mg/L		104	75 - 125	1	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-284576/1-A ^20
Matrix: Solid
Analysis Batch: 284760

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 284576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		500	250	ug/L		10/05/15 08:28	10/05/15 15:58	20

Lab Sample ID: LCS 440-284576/2-A ^20
Matrix: Solid
Analysis Batch: 284760

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 284576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49000	49800		ug/L		102	80 - 120

Lab Sample ID: 440-122911-1 MS
Matrix: Solid
Analysis Batch: 284760

Client Sample ID: B3
Prep Type: Total/NA
Prep Batch: 284576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1900		60700	65200		ug/L	☼	104	80 - 120

Lab Sample ID: 440-122911-1 MSD
Matrix: Solid
Analysis Batch: 284760

Client Sample ID: B3
Prep Type: Total/NA
Prep Batch: 284576

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1900		61000	55500		ug/L	☼	88	80 - 120	16	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-283904/1-A
Matrix: Solid
Analysis Batch: 284349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 283904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		10/01/15 11:34	10/03/15 00:49	1

Lab Sample ID: LCS 440-283904/2-A
Matrix: Solid
Analysis Batch: 284349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 283904

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.718		mg/Kg		90	80 - 120

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-122742-A-1-B MS ^10
Matrix: Solid
Analysis Batch: 284349

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 283904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	5.7		1.39	5.11	4	mg/Kg	☼	-42	70 - 130		

Lab Sample ID: 440-122742-A-1-C MSD ^10
Matrix: Solid
Analysis Batch: 284349

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 283904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	5.7		1.39	4.99		mg/Kg	☼				

QC Association Summary

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

GC/MS VOA

Analysis Batch: 284482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122755-A-8 MS	Matrix Spike	Total/NA	Solid	8260B	
440-122755-A-8 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	
440-122911-1	B3	Total/NA	Solid	8260B	
LCS 440-284482/4	Lab Control Sample	Total/NA	Solid	8260B	
LCS 440-284482/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-284482/7	Lab Control Sample Dup	Total/NA	Solid	8260B	
MB 440-284482/3	Method Blank	Total/NA	Solid	8260B	

GC VOA

Analysis Batch: 283818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-121892-A-9 MS	Matrix Spike	Total/NA	Solid	8015B	
440-121892-A-9 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	
440-122911-1	B3	Total/NA	Solid	8015B	
LCS 440-283818/10	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-283818/5	Lab Control Sample Dup	Total/NA	Solid	8015B	
MB 440-283818/6	Method Blank	Total/NA	Solid	8015B	

GC Semi VOA

Analysis Batch: 283533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122766-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B	283662
440-122766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	283662
LCS 440-283662/2-A	Lab Control Sample	Total/NA	Solid	8015B	283662
MB 440-283662/1-A	Method Blank	Total/NA	Solid	8015B	283662

Analysis Batch: 283604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122911-1	B3	Total/NA	Solid	8015B	283662

Prep Batch: 283662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122766-A-1-B MS	Matrix Spike	Total/NA	Solid	3546	
440-122766-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	
440-122911-1	B3	Total/NA	Solid	3546	
LCS 440-283662/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 440-283662/1-A	Method Blank	Total/NA	Solid	3546	

Metals

Prep Batch: 283856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122911-1	B3	Total/NA	Solid	3050B	
440-122911-1 MS	B3	Total/NA	Solid	3050B	
440-122911-1 MSD	B3	Total/NA	Solid	3050B	
LCS 440-283856/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-283856/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 283904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122742-A-1-B MS ^10	Matrix Spike	Total/NA	Solid	7471A	
440-122742-A-1-C MSD ^10	Matrix Spike Duplicate	Total/NA	Solid	7471A	
440-122911-1	B3	Total/NA	Solid	7471A	
LCS 440-283904/2-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 440-283904/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 284013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122911-1	B3	Total/NA	Solid	6010B	283856
440-122911-1 MS	B3	Total/NA	Solid	6010B	283856
440-122911-1 MSD	B3	Total/NA	Solid	6010B	283856
LCS 440-283856/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	283856
MB 440-283856/1-A ^5	Method Blank	Total/NA	Solid	6010B	283856

Analysis Batch: 284349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122742-A-1-B MS ^10	Matrix Spike	Total/NA	Solid	7471A	283904
440-122742-A-1-C MSD ^10	Matrix Spike Duplicate	Total/NA	Solid	7471A	283904
440-122911-1	B3	Total/NA	Solid	7471A	283904
LCS 440-283904/2-A	Lab Control Sample	Total/NA	Solid	7471A	283904
MB 440-283904/1-A	Method Blank	Total/NA	Solid	7471A	283904

Prep Batch: 284576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122911-1	B3	Total/NA	Solid	3050B	
440-122911-1 MS	B3	Total/NA	Solid	3050B	
440-122911-1 MSD	B3	Total/NA	Solid	3050B	
LCS 440-284576/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-284576/1-A ^20	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 284760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122911-1	B3	Total/NA	Solid	6020	284576
440-122911-1 MS	B3	Total/NA	Solid	6020	284576
440-122911-1 MSD	B3	Total/NA	Solid	6020	284576
LCS 440-284576/2-A ^20	Lab Control Sample	Total/NA	Solid	6020	284576
MB 440-284576/1-A ^20	Method Blank	Total/NA	Solid	6020	284576

Leach Batch: 285071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122620-A-1-K MS ^20	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
440-122620-A-1-K MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	
440-122911-1	B3	STLC Citrate	Solid	CA WET Citrate	
LCS 440-285071/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
MB 440-285071/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 286200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122620-A-1-K MS ^20	Matrix Spike	STLC Citrate	Solid	6010B	285071
440-122620-A-1-K MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	6010B	285071
440-122911-1	B3	STLC Citrate	Solid	6010B	285071

Metals (Continued)

Analysis Batch: 286200 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-285071/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	285071
MB 440-285071/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	285071

General Chemistry

Analysis Batch: 283772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-122742-A-1 DU	Duplicate	Total/NA	Solid	Moisture	
440-122742-A-1 MS	Matrix Spike	Total/NA	Solid	Moisture	
440-122742-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	
440-122911-1	B3	Total/NA	Solid	Moisture	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Parsons Corporation
Project/Site: Foshay Learning Center

TestAmerica Job ID: 440-122911-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015B		Solid	GRO (C6-C12)
8015B	3546	Solid	EFH (C10-C40)
8015B	3546	Solid	ORO (C29-C40)
8260B		Solid	1,1-Dichloropropene
8260B		Solid	1,2,3-Trichlorobenzene
8260B		Solid	1,2,4-Trimethylbenzene
8260B		Solid	1,3,5-Trimethylbenzene
8260B		Solid	1,3-Dichloropropane
8260B		Solid	2,2-Dichloropropane
8260B		Solid	2-Chlorotoluene
8260B		Solid	4-Chlorotoluene
8260B		Solid	Bromobenzene
8260B		Solid	cis-1,2-Dichloroethene
8260B		Solid	m,p-Xylene
8260B		Solid	n-Butylbenzene
8260B		Solid	N-Propylbenzene
8260B		Solid	p-Isopropyltoluene
8260B		Solid	sec-Butylbenzene
8260B		Solid	tert-Butylbenzene
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

071073

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jim Goepel	Site Contact:	Date:	COC No:
Company Name: PARSONS	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 100 W. Walnut St.	Analysis Turnaround Time			Sampler:
City/State/Zip: PASADENA CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-449-6013	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: FOSHAY LC	☐ 1 week			
Site:	☒ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs 8260B	TPH-D - G - HH	METALS TTLC	Sample Specific Notes:
B3	9/30/15	0630	G	SOIL	3			X	X	X	

440-122911 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	PARSONS	9/30/15 1250	Received by:	TA	9/30/15 1250
Relinquished by:	TA	9/30/15 1430	Received by:		
Relinquished by:			Received in Laboratory by:	TAI	9/30/15 14:30

IR-7 2.4/2.8

Page 30 of 31

10/12/2015

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-122911-1

Login Number: 122911
List Number: 1
Creator: Kim, Guerry

List Source: TestAmerica Irvine

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

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-132367-1
Client Project/Site: LAUSD Foshay Learning Center
Revision: 1

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Jim Goepel

Authorized for release by:
12/30/2015 9:41:00 AM

Danielle Roberts, Senior Project Manager
(949)261-1022
danielle.roberts@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-132367-1	B3-Bottom	Solid	12/28/15 09:09	12/29/15 08:55
440-132367-2	B3-W	Solid	12/28/15 09:11	12/29/15 08:55
440-132367-3	B3-N	Solid	12/28/15 09:13	12/29/15 08:55
440-132367-4	B3-E	Solid	12/28/15 09:15	12/29/15 08:55
440-132367-5	B3-S	Solid	12/28/15 09:17	12/29/15 08:55
440-132367-6	S-Sidewall-1	Solid	12/28/15 09:50	12/29/15 08:55
440-132367-7	S-Sidewall-1 Dup	Solid	12/28/15 09:50	12/29/15 08:55
440-132367-8	S-Sidewall-2	Solid	12/28/15 09:39	12/29/15 08:55
440-132367-9	S-Sidewall-3	Solid	12/28/15 09:37	12/29/15 08:55
440-132367-10	S-Sidewall-4	Solid	12/28/15 09:35	12/29/15 08:55
440-132367-11	N-Sidewall-1	Solid	12/28/15 10:38	12/29/15 08:55
440-132367-12	N-Sidewall-2	Solid	12/28/15 10:40	12/29/15 08:55
440-132367-13	N-Sidewall-3	Solid	12/28/15 10:42	12/29/15 08:55
440-132367-14	N-Sidewall-4	Solid	12/28/15 10:44	12/29/15 08:55
440-132367-15	N-Sidewall-4 Dup	Solid	12/28/15 10:44	12/29/15 08:55

Job ID: 440-132367-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-132367-1

Comments
No additional comments.

Receipt
The samples were received on 12/29/2015 8:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2º C.

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

Client Sample ID: B3-Bottom
Lab Sample ID: 440-132367-1
Date Collected: 12/28/15 09:09
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		3.0	1.5	mg/Kg		12/29/15 09:28	12/29/15 15:27	5

Client Sample ID: B3-W
Lab Sample ID: 440-132367-2
Date Collected: 12/28/15 09:11
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/29/15 09:28	12/29/15 15:32	5

Client Sample ID: B3-N
Lab Sample ID: 440-132367-3
Date Collected: 12/28/15 09:13
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3	J	3.0	1.5	mg/Kg		12/29/15 09:28	12/29/15 15:34	5

Client Sample ID: B3-E
Lab Sample ID: 440-132367-4
Date Collected: 12/28/15 09:15
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/29/15 09:28	12/29/15 15:36	5

Client Sample ID: B3-S
Lab Sample ID: 440-132367-5
Date Collected: 12/28/15 09:17
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3	J	3.0	1.5	mg/Kg		12/29/15 09:28	12/29/15 15:37	5

Client Sample ID: S-Sidewall-1
Lab Sample ID: 440-132367-6
Date Collected: 12/28/15 09:50
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200		2.0	1.0	mg/Kg		12/29/15 09:28	12/29/15 15:39	5

Client Sample ID: S-Sidewall-1 Dup
Lab Sample ID: 440-132367-7
Date Collected: 12/28/15 09:50
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	270		2.0	0.99	mg/Kg		12/29/15 09:28	12/29/15 15:45	5

Client Sample ID: S-Sidewall-2
Lab Sample ID: 440-132367-8
Date Collected: 12/28/15 09:39
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	60		2.0	1.0	mg/Kg		12/29/15 09:28	12/29/15 15:47	5

Client Sample ID: S-Sidewall-3
Lab Sample ID: 440-132367-9
Date Collected: 12/28/15 09:37
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	270		2.0	1.0	mg/Kg		12/29/15 09:28	12/29/15 15:48	5

Client Sample ID: S-Sidewall-4
Lab Sample ID: 440-132367-10
Date Collected: 12/28/15 09:35
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		2.0	0.99	mg/Kg		12/29/15 09:28	12/29/15 15:50	5

Client Sample ID: N-Sidewall-1
Lab Sample ID: 440-132367-11
Date Collected: 12/28/15 10:38
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	130		2.0	1.0	mg/Kg		12/29/15 09:28	12/29/15 15:52	5

Client Sample ID: N-Sidewall-2
Lab Sample ID: 440-132367-12
Date Collected: 12/28/15 10:40
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	73		2.0	0.99	mg/Kg		12/29/15 09:28	12/29/15 15:54	5

Client Sample ID: N-Sidewall-3
Lab Sample ID: 440-132367-13
Date Collected: 12/28/15 10:42
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		2.0	0.99	mg/Kg		12/29/15 09:28	12/29/15 15:55	5

Client Sample ID: N-Sidewall-4
Lab Sample ID: 440-132367-14
Date Collected: 12/28/15 10:44
Matrix: Solid
Date Received: 12/29/15 08:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140		2.0	0.99	mg/Kg		12/29/15 09:28	12/29/15 15:57	5

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Client Sample ID: N-Sidewall-4 Dup
Date Collected: 12/28/15 10:44
Date Received: 12/29/15 08:55

Lab Sample ID: 440-132367-15
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	98		2.0	0.99	mg/Kg		12/29/15 09:28	12/29/15 15:59	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

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

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Client Sample ID: B3-Bottom
Date Collected: 12/28/15 09:09
Date Received: 12/29/15 08:55

Lab Sample ID: 440-132367-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	302910	12/29/15 15:27	TK	TAL IRV

Client Sample ID: B3-W
Date Collected: 12/28/15 09:11
Date Received: 12/29/15 08:55

Lab Sample ID: 440-132367-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	302910	12/29/15 15:32	TK	TAL IRV

Client Sample ID: B3-N
Date Collected: 12/28/15 09:13
Date Received: 12/29/15 08:55

Lab Sample ID: 440-132367-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	302910	12/29/15 15:34	TK	TAL IRV

Client Sample ID: B3-E
Date Collected: 12/28/15 09:15
Date Received: 12/29/15 08:55

Lab Sample ID: 440-132367-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	302910	12/29/15 15:36	TK	TAL IRV

Client Sample ID: B3-S
Date Collected: 12/28/15 09:17
Date Received: 12/29/15 08:55

Lab Sample ID: 440-132367-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	302910	12/29/15 15:37	TK	TAL IRV

Client Sample ID: S-Sidewall-1
Date Collected: 12/28/15 09:50
Date Received: 12/29/15 08:55

Lab Sample ID: 440-132367-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	302910	12/29/15 15:39	TK	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Client Sample ID: S-Sidewall-1 Dup
Lab Sample ID: 440-132367-7
Date Collected: 12/28/15 09:50
Matrix: Solid
Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	302910	12/29/15 15:45	TK	TAL IRV

Client Sample ID: S-Sidewall-2
Lab Sample ID: 440-132367-8
Date Collected: 12/28/15 09:39
Matrix: Solid
Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	302910	12/29/15 15:47	TK	TAL IRV

Client Sample ID: S-Sidewall-3
Lab Sample ID: 440-132367-9
Date Collected: 12/28/15 09:37
Matrix: Solid
Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	302910	12/29/15 15:48	TK	TAL IRV

Client Sample ID: S-Sidewall-4
Lab Sample ID: 440-132367-10
Date Collected: 12/28/15 09:35
Matrix: Solid
Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	302910	12/29/15 15:50	TK	TAL IRV

Client Sample ID: N-Sidewall-1
Lab Sample ID: 440-132367-11
Date Collected: 12/28/15 10:38
Matrix: Solid
Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	302910	12/29/15 15:52	TK	TAL IRV

Client Sample ID: N-Sidewall-2
Lab Sample ID: 440-132367-12
Date Collected: 12/28/15 10:40
Matrix: Solid
Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	302910	12/29/15 15:54	TK	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Client Sample ID: N-Sidewall-3

Lab Sample ID: 440-132367-13

Date Collected: 12/28/15 10:42

Matrix: Solid

Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	302910	12/29/15 15:55	TK	TAL IRV

Client Sample ID: N-Sidewall-4

Lab Sample ID: 440-132367-14

Date Collected: 12/28/15 10:44

Matrix: Solid

Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	302910	12/29/15 15:57	TK	TAL IRV

Client Sample ID: N-Sidewall-4 Dup

Lab Sample ID: 440-132367-15

Date Collected: 12/28/15 10:44

Matrix: Solid

Date Received: 12/29/15 08:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	302802	12/29/15 09:28	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	302910	12/29/15 15:59	TK	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-302802/1-A ^5
Matrix: Solid
Analysis Batch: 302910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302802

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/29/15 09:28	12/29/15 15:22	5
Lead	ND		2.0	1.0	mg/Kg		12/29/15 09:28	12/29/15 15:22	5

Lab Sample ID: LCS 440-302802/2-A ^5
Matrix: Solid
Analysis Batch: 302910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302802

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.3	45.6		mg/Kg		93	80 - 120
Lead	49.3	46.4		mg/Kg		94	80 - 120

Lab Sample ID: 440-132367-1 MS
Matrix: Solid
Analysis Batch: 302910

Client Sample ID: B3-Bottom
Prep Type: Total/NA
Prep Batch: 302802

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.6		49.3	59.3		mg/Kg		113	75 - 125
Lead	51	F1	49.3	117	F1	mg/Kg		134	75 - 125

Lab Sample ID: 440-132367-1 MSD
Matrix: Solid
Analysis Batch: 302910

Client Sample ID: B3-Bottom
Prep Type: Total/NA
Prep Batch: 302802

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.6		49.8	61.3		mg/Kg		116	75 - 125	3	20
Lead	51	F1	49.8	129	F1	mg/Kg		155	75 - 125	9	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Metals

Prep Batch: 302802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132367-1	B3-Bottom	Total/NA	Solid	3050B	
440-132367-1 MS	B3-Bottom	Total/NA	Solid	3050B	
440-132367-1 MSD	B3-Bottom	Total/NA	Solid	3050B	
440-132367-2	B3-W	Total/NA	Solid	3050B	
440-132367-3	B3-N	Total/NA	Solid	3050B	
440-132367-4	B3-E	Total/NA	Solid	3050B	
440-132367-5	B3-S	Total/NA	Solid	3050B	
440-132367-6	S-Sidewall-1	Total/NA	Solid	3050B	
440-132367-7	S-Sidewall-1 Dup	Total/NA	Solid	3050B	
440-132367-8	S-Sidewall-2	Total/NA	Solid	3050B	
440-132367-9	S-Sidewall-3	Total/NA	Solid	3050B	
440-132367-10	S-Sidewall-4	Total/NA	Solid	3050B	
440-132367-11	N-Sidewall-1	Total/NA	Solid	3050B	
440-132367-12	N-Sidewall-2	Total/NA	Solid	3050B	
440-132367-13	N-Sidewall-3	Total/NA	Solid	3050B	
440-132367-14	N-Sidewall-4	Total/NA	Solid	3050B	
440-132367-15	N-Sidewall-4 Dup	Total/NA	Solid	3050B	
LCS 440-302802/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-302802/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 302910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132367-1	B3-Bottom	Total/NA	Solid	6010B	302802
440-132367-1 MS	B3-Bottom	Total/NA	Solid	6010B	302802
440-132367-1 MSD	B3-Bottom	Total/NA	Solid	6010B	302802
440-132367-2	B3-W	Total/NA	Solid	6010B	302802
440-132367-3	B3-N	Total/NA	Solid	6010B	302802
440-132367-4	B3-E	Total/NA	Solid	6010B	302802
440-132367-5	B3-S	Total/NA	Solid	6010B	302802
440-132367-6	S-Sidewall-1	Total/NA	Solid	6010B	302802
440-132367-7	S-Sidewall-1 Dup	Total/NA	Solid	6010B	302802
440-132367-8	S-Sidewall-2	Total/NA	Solid	6010B	302802
440-132367-9	S-Sidewall-3	Total/NA	Solid	6010B	302802
440-132367-10	S-Sidewall-4	Total/NA	Solid	6010B	302802
440-132367-11	N-Sidewall-1	Total/NA	Solid	6010B	302802
440-132367-12	N-Sidewall-2	Total/NA	Solid	6010B	302802
440-132367-13	N-Sidewall-3	Total/NA	Solid	6010B	302802
440-132367-14	N-Sidewall-4	Total/NA	Solid	6010B	302802
440-132367-15	N-Sidewall-4 Dup	Total/NA	Solid	6010B	302802
LCS 440-302802/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	302802
MB 440-302802/1-A ^5	Method Blank	Total/NA	Solid	6010B	302802

Definitions/Glossary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132367-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

Analysis Method	Prep Method	Matrix	Analyte

TestAmerica Canton

4101 Shuffel Street, N. N.

North Canton, OH 44720
Phone: 330.497.9396 Fax: 330.497.0772

Chain of Custody Record

031921

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jim Goepel	Site Contact: Pete Shaw	Date: 12-28-15	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6013	Lab Contact: Danielle Roberts	Carrier: TA	1 of 2 COCs
Address: 100 W. Walnut St.	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6013	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Foshay LC	☐ 1 week			
Site: 3751 S. Harvard, LA	☐ 2 days			Job / SDG No.:
P O #	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic EPA 6020	Lead EPA 6020	Sample Specific Notes:
B3-Bottom	12-28-15	0909	G	Soil	1			X		
B3-W		0911	G	S	1			X		
B3-N		0913	G	S	1			X		24-hr
B3-E		0915	G	S	1			X		
B3-S		0917	G	S	1			X		TAT
S-Sidewall-1		0950	G	S	1				X	
S-Sidewall-1 Dup		0950	G	S	1				X	
S-Sidewall-2		0939	G	S	1				X	
S-Sidewall-3		0937	G	S	1				X	
S-Sidewall-4		0935	G	S	1				X	
N-Sidewall-1		1038	G	S	1				X	
N-Sidewall-2		1040	G	S	1				X	

440-132367 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.2 Corr'd: 3.2 Therm ID No.: IR-73

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Pete Shaw	Parsons	12-28-15 0700	Shahid NABI	DCS	12/29/15 0710
Relinquished by: Shahid NABI	Company: DCS	Date/Time: 12/29/15 8:55	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Stephanie	Company: TAL	Date/Time: 12/29/15 8:55

LTC Shahid NABI

12/29/15

Page 10 of 10

12/30/2015

TestAmerica Canton

4101 Shuffel Street, N. U.

North Canton, OH 44720
Phone: 330.497.9396 Fax: 330.497.0772

Chain of Custody Record

031920

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jim Goepel	Site Contact: Pete Shaw	Date: 12-28-15	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6013	Lab Contact: Danielle Roberts	Carrier: TA	2 of 2 COCs
Address: 100 W. Walnut ST	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6013	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Foshay LC	☐ 1 week			
Site: 3757 S. Harvard, LA	☐ 2 days			Job / SDG No.:
P O #	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead EPA 6020	Sample Specific Notes:
N-Sidewall-3	12-28-15	1042	Grab	Soil	1			X	
N-Sidewall-4	12-28-15	1044	Grab	Soil	1			X	24-hr TAT
N-Sidewall-4Dup	12-28-15	1044	Grab	Soil	1			X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 4.2 Corr'd: 3.2 | Therm ID No.: IR-B

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Pete Shaw	Parsons	12-28-15 0700	Stephanie	DCS	12/29/15 07:00
Relinquished by: Stephanie	Company: DCS	Date/Time: 12/29/15 8:55	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 12/29/15 8:55

MTC Shipping

12/30/2015

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-132367-1

Login Number: 132367
List Number: 1
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-132448-1
Client Project/Site: LAUSD Foshay Learning Center
Revision: 1

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Jim Goepel

Authorized for release by:
12/31/2015 2:02:43 PM

Danielle Roberts, Senior Project Manager
(949)261-1022
danielle.roberts@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132448-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-132448-1	N-BOTTOM-1	Solid	12/29/15 09:12	12/29/15 16:45
440-132448-2	N-BOTTOM-2	Solid	12/29/15 09:14	12/29/15 16:45
440-132448-3	N-BOTTOM-3	Solid	12/29/15 09:16	12/29/15 16:45
440-132448-4	N-BOTTOM-4	Solid	12/29/15 09:18	12/29/15 16:45
440-132448-5	N-BOTTOM-4 DUP	Solid	12/29/15 09:18	12/29/15 16:45
440-132448-6	N-BOTTOM-5	Solid	12/29/15 09:20	12/29/15 16:45

Job ID: 440-132448-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-132448-1

Comments
No additional comments.

Receipt
The samples were received on 12/29/2015 4:45 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

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

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132448-1

Client Sample ID: N-BOTTOM-1
Lab Sample ID: 440-132448-1
Date Collected: 12/29/15 09:12
Matrix: Solid
Date Received: 12/29/15 16:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		2.0	0.99	mg/Kg		12/30/15 09:01	12/30/15 15:32	5

Client Sample ID: N-BOTTOM-2
Lab Sample ID: 440-132448-2
Date Collected: 12/29/15 09:14
Matrix: Solid
Date Received: 12/29/15 16:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	95		2.0	1.0	mg/Kg		12/30/15 09:01	12/30/15 15:38	5

Client Sample ID: N-BOTTOM-3
Lab Sample ID: 440-132448-3
Date Collected: 12/29/15 09:16
Matrix: Solid
Date Received: 12/29/15 16:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	27		2.0	0.99	mg/Kg		12/30/15 09:01	12/30/15 15:40	5

Client Sample ID: N-BOTTOM-4
Lab Sample ID: 440-132448-4
Date Collected: 12/29/15 09:18
Matrix: Solid
Date Received: 12/29/15 16:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		2.0	0.99	mg/Kg		12/30/15 09:01	12/30/15 15:42	5

Client Sample ID: N-BOTTOM-4 DUP
Lab Sample ID: 440-132448-5
Date Collected: 12/29/15 09:18
Matrix: Solid
Date Received: 12/29/15 16:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		2.0	1.0	mg/Kg		12/30/15 09:01	12/30/15 15:43	5

Client Sample ID: N-BOTTOM-5
Lab Sample ID: 440-132448-6
Date Collected: 12/29/15 09:20
Matrix: Solid
Date Received: 12/29/15 16:45

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	330		2.0	0.99	mg/Kg		12/30/15 09:01	12/30/15 15:45	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132448-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

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

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132448-1

Client Sample ID: N-BOTTOM-1
Date Collected: 12/29/15 09:12
Date Received: 12/29/15 16:45

Lab Sample ID: 440-132448-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	303040	12/30/15 09:01	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	303196	12/30/15 15:32	TK	TAL IRV

Client Sample ID: N-BOTTOM-2
Date Collected: 12/29/15 09:14
Date Received: 12/29/15 16:45

Lab Sample ID: 440-132448-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	303040	12/30/15 09:01	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	303196	12/30/15 15:38	TK	TAL IRV

Client Sample ID: N-BOTTOM-3
Date Collected: 12/29/15 09:16
Date Received: 12/29/15 16:45

Lab Sample ID: 440-132448-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	303040	12/30/15 09:01	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	303196	12/30/15 15:40	TK	TAL IRV

Client Sample ID: N-BOTTOM-4
Date Collected: 12/29/15 09:18
Date Received: 12/29/15 16:45

Lab Sample ID: 440-132448-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	303040	12/30/15 09:01	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	303196	12/30/15 15:42	TK	TAL IRV

Client Sample ID: N-BOTTOM-4 DUP
Date Collected: 12/29/15 09:18
Date Received: 12/29/15 16:45

Lab Sample ID: 440-132448-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	303040	12/30/15 09:01	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	303196	12/30/15 15:43	TK	TAL IRV

Client Sample ID: N-BOTTOM-5
Date Collected: 12/29/15 09:20
Date Received: 12/29/15 16:45

Lab Sample ID: 440-132448-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	303040	12/30/15 09:01	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	303196	12/30/15 15:45	TK	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132448-1

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132448-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-303040/1-A ^5
Matrix: Solid
Analysis Batch: 303196

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303040

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	1.0	mg/L		12/30/15 08:31	12/30/15 15:21	5

Lab Sample ID: LCS 440-303040/2-A ^5
Matrix: Solid
Analysis Batch: 303196

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303040

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.3	50.3		mg/L		102	80 - 120
Arsenic	49.3	49.4		mg/Kg		100	80 - 120

Lab Sample ID: 440-131471-A-5-B MS ^5
Matrix: Solid
Analysis Batch: 303196

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 303040

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	2.8		49.5	53.0		mg/L		101	75 - 125
Arsenic	4.2		49.5	54.4		mg/Kg		101	75 - 125

Lab Sample ID: 440-131471-A-5-C MSD ^5
Matrix: Solid
Analysis Batch: 303196

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 303040

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	2.8		49.8	57.2		mg/L		109	75 - 125	8	20
Arsenic	4.2		49.8	59.3		mg/Kg		111	75 - 125	9	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132448-1

Metals

Prep Batch: 303040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-131471-A-5-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-131471-A-5-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
440-132448-1	N-BOTTOM-1	Total/NA	Solid	3050B	
440-132448-2	N-BOTTOM-2	Total/NA	Solid	3050B	
440-132448-3	N-BOTTOM-3	Total/NA	Solid	3050B	
440-132448-4	N-BOTTOM-4	Total/NA	Solid	3050B	
440-132448-5	N-BOTTOM-4 DUP	Total/NA	Solid	3050B	
440-132448-6	N-BOTTOM-5	Total/NA	Solid	3050B	
LCS 440-303040/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-303040/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 303196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-131471-A-5-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	303040
440-131471-A-5-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	303040
440-132448-1	N-BOTTOM-1	Total/NA	Solid	6010B	303040
440-132448-2	N-BOTTOM-2	Total/NA	Solid	6010B	303040
440-132448-3	N-BOTTOM-3	Total/NA	Solid	6010B	303040
440-132448-4	N-BOTTOM-4	Total/NA	Solid	6010B	303040
440-132448-5	N-BOTTOM-4 DUP	Total/NA	Solid	6010B	303040
440-132448-6	N-BOTTOM-5	Total/NA	Solid	6010B	303040
LCS 440-303040/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	303040
MB 440-303040/1-A ^5	Method Blank	Total/NA	Solid	6010B	303040

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132448-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

Analysis Method	Prep Method	Matrix	Analyte

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jim Goepel	Site Contact: Peter Shair	Date: 12-24-15	COC No: 1
Company: Parsons	Tel/Fax: 626-440-6013	Lab Contact: Danielle Roberts	Carrier: TA	1 of 1 COCs
City: 100 W. Walnut St., Pasadena	**Analysis Turnaround Time**			Job No. /
State/ZIP: CA 91024	Calendar (C) or Work Days (W) _____			
Phone: 626-440-6013 - Jim Goepel	TAT if different from Below _____			
FAX:	☐ 2 weeks			SDG No.
Project Name: LAUSD Foshay LC	☐ 1 week			
Site: 3751 S. Harvard, LA, CA	☐ 2 days			
P O #	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample Lead 6020	Sample Specific Notes:
N-Bottom-1	12-24-15	912	G	Soil	1	X	
N-Bottom-2	↓	914	↓	↓	↓	X	
N-Bottom-3		916				X	
N-Bottom-4		918				X	
N-Bottom-4Dup		918				X	
N-Bottom-5	↓	920	↓	↓	↓	X	

440-132448 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☑ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **Standard Turnaround Time**

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Pete Shair	Parsons	12-24-15 1325		TAI	12/24/15 1325
Relinquished by:	Company:	Date/Time: 1645 12/24/15	Received by:	Company:	Date/Time:
	TAI				
Relinquished by:	Company:	Date/Time:	Received by: Olga Olmelas	Company: TAI	Date/Time: 12/29/15 16:45

IR76 2-1/1.2

UTC

12/31/2015

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-132448-1

Login Number: 132448
List Number: 1
Creator: Garcia, Veronica G

List Source: TestAmerica Irvine

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-132614-1
Client Project/Site: LAUSD Foshay Learning Center

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Jim Goepel

Authorized for release by:
12/31/2015 1:35:36 PM

Danielle Roberts, Senior Project Manager
(949)261-1022
danielle.roberts@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132614-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-132614-1	S-Bottom-1	Solid	12/30/15 09:07	12/30/15 14:40
440-132614-2	S-Bottom-2	Solid	12/30/15 09:09	12/30/15 14:40
440-132614-3	S-Bottom-3	Solid	12/30/15 09:11	12/30/15 14:40
440-132614-4	S-Bottom-4	Solid	12/30/15 09:14	12/30/15 14:40
440-132614-5	S-Bottom-5	Solid	12/30/15 09:16	12/30/15 14:40

Job ID: 440-132614-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-132614-1

Comments
No additional comments.

Receipt
The samples were received on 12/30/2015 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

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

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132614-1

Client Sample ID: S-Bottom-1
Lab Sample ID: 440-132614-1
Date Collected: 12/30/15 09:07
Matrix: Solid
Date Received: 12/30/15 14:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		2.0	1.0	mg/Kg		12/30/15 18:37	12/31/15 11:24	5

Client Sample ID: S-Bottom-2
Lab Sample ID: 440-132614-2
Date Collected: 12/30/15 09:09
Matrix: Solid
Date Received: 12/30/15 14:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	50		2.0	1.0	mg/Kg		12/30/15 18:37	12/31/15 11:29	5

Client Sample ID: S-Bottom-3
Lab Sample ID: 440-132614-3
Date Collected: 12/30/15 09:11
Matrix: Solid
Date Received: 12/30/15 14:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	24		2.0	1.0	mg/Kg		12/30/15 18:37	12/31/15 11:31	5

Client Sample ID: S-Bottom-4
Lab Sample ID: 440-132614-4
Date Collected: 12/30/15 09:14
Matrix: Solid
Date Received: 12/30/15 14:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		2.0	0.99	mg/Kg		12/30/15 18:37	12/31/15 11:32	5

Client Sample ID: S-Bottom-5
Lab Sample ID: 440-132614-5
Date Collected: 12/30/15 09:16
Matrix: Solid
Date Received: 12/30/15 14:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	180		2.0	0.99	mg/Kg		12/30/15 18:39	12/31/15 11:34	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132614-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

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

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132614-1

Client Sample ID: S-Bottom-1
Date Collected: 12/30/15 09:07
Date Received: 12/30/15 14:40

Lab Sample ID: 440-132614-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	303245	12/30/15 18:37	GK	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	303391	12/31/15 11:24	EN	TAL IRV

Client Sample ID: S-Bottom-2
Date Collected: 12/30/15 09:09
Date Received: 12/30/15 14:40

Lab Sample ID: 440-132614-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	303245	12/30/15 18:37	GK	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	303391	12/31/15 11:29	EN	TAL IRV

Client Sample ID: S-Bottom-3
Date Collected: 12/30/15 09:11
Date Received: 12/30/15 14:40

Lab Sample ID: 440-132614-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	303245	12/30/15 18:37	GK	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	303391	12/31/15 11:31	EN	TAL IRV

Client Sample ID: S-Bottom-4
Date Collected: 12/30/15 09:14
Date Received: 12/30/15 14:40

Lab Sample ID: 440-132614-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	303245	12/30/15 18:37	GK	TAL IRV
Total/NA	Analysis	6010B		5	2.03 g	50 mL	303391	12/31/15 11:32	EN	TAL IRV

Client Sample ID: S-Bottom-5
Date Collected: 12/30/15 09:16
Date Received: 12/30/15 14:40

Lab Sample ID: 440-132614-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	303245	12/30/15 18:39	GK	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	303391	12/31/15 11:34	EN	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-303245/1-A ^5
Matrix: Solid
Analysis Batch: 303391

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303245

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.99	mg/Kg		12/30/15 18:37	12/31/15 11:19	5

Lab Sample ID: LCS 440-303245/2-A ^5
Matrix: Solid
Analysis Batch: 303391

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303245

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	49.3	49.3		mg/Kg		100	80 - 120

Lab Sample ID: 440-132614-1 MS
Matrix: Solid
Analysis Batch: 303391

Client Sample ID: S-Bottom-1
Prep Type: Total/NA
Prep Batch: 303245

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20		49.0	61.1		mg/Kg		85	75 - 125

Lab Sample ID: 440-132614-1 MSD
Matrix: Solid
Analysis Batch: 303391

Client Sample ID: S-Bottom-1
Prep Type: Total/NA
Prep Batch: 303245

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	20		49.3	63.8		mg/Kg		90	75 - 125	4	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132614-1

Metals

Prep Batch: 303245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132614-1	S-Bottom-1	Total/NA	Solid	3050B	
440-132614-1 MS	S-Bottom-1	Total/NA	Solid	3050B	
440-132614-1 MSD	S-Bottom-1	Total/NA	Solid	3050B	
440-132614-2	S-Bottom-2	Total/NA	Solid	3050B	
440-132614-3	S-Bottom-3	Total/NA	Solid	3050B	
440-132614-4	S-Bottom-4	Total/NA	Solid	3050B	
440-132614-5	S-Bottom-5	Total/NA	Solid	3050B	
LCS 440-303245/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-303245/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 303391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132614-1	S-Bottom-1	Total/NA	Solid	6010B	303245
440-132614-1 MS	S-Bottom-1	Total/NA	Solid	6010B	303245
440-132614-1 MSD	S-Bottom-1	Total/NA	Solid	6010B	303245
440-132614-2	S-Bottom-2	Total/NA	Solid	6010B	303245
440-132614-3	S-Bottom-3	Total/NA	Solid	6010B	303245
440-132614-4	S-Bottom-4	Total/NA	Solid	6010B	303245
440-132614-5	S-Bottom-5	Total/NA	Solid	6010B	303245
LCS 440-303245/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	303245
MB 440-303245/1-A ^5	Method Blank	Total/NA	Solid	6010B	303245

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132614-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

Analysis Method	Prep Method	Matrix	Analyte

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jim Goepel	Site Contact: Peter Shair	Date: 12-30-15	COC No: 1
Company: Parsons	Tel/Fax: 626-440-6013	Lab Contact: Danielle Roberts	Carrier: TA	1 of 1 COCs
City: 100 W. Walnut St., Pasadena	Analysis Turnaround Time			Job No. /
State/ZIP: CA 91024	Calendar (C) or Work Days (W) _____			
Phone: 626-440-6013 - Jim Goepel	TAT if different from Below _____			SDG No.
FAX:	☐ 2 weeks			
Project Name: LAUSD Foshay LC	☐ 1 week			
Site: 3751 S. Harvard, LA, CA	☐ 2 days			
P O #	☒ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample Lead 6010	Sample Specific Notes:
S-Bottom-1	12-30-15	907	Grab	Soil	1	X	
S-Bottom-2		909			1	X	
S-Bottom-3		911			1	X	
S-Bottom-4		914			1	X	
S-Bottom-5		916			1	X	

12/30/15

440-132614 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ *Non-Hazard* ☐ *Flammable* ☐ *Skin Irritant* *Poison B* ☐ *Unknown* ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☑ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Special Instructions/QC Requirements & Comments: **Standard Turnaround Time**

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Peter Shair	Parsons	12-30-15 0925		TA	12/30/15 0925
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TA	12/30/15 1440		TA	12/30/15 1440
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

12/31/2015

STC
RO

5.3/4.3 IR-73

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-132614-1

Login Number: 132614
List Number: 1
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine

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

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-132686-1
Client Project/Site: LAUSD Foshay Learning Center

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Jim Goepel

Authorized for release by:
1/4/2016 11:22:40 AM

Danielle Roberts, Senior Project Manager
(949)261-1022
danielle.roberts@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132686-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-132686-1	S-Stepout-1	Solid	12/30/15 10:25	12/31/15 15:30
440-132686-2	S-Stepout-2	Solid	12/30/15 10:30	12/31/15 15:30
440-132686-3	N-Stepout-1	Solid	12/30/15 10:50	12/31/15 15:30
440-132686-4	N-Stepout-2	Solid	12/30/15 10:40	12/31/15 15:30

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132686-1

Job ID: 440-132686-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-132686-1

Comments
No additional comments.

Receipt
The samples were received on 12/31/2015 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.7º C.

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

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132686-1

Client Sample ID: S-Stepout-1

Lab Sample ID: 440-132686-1
Date Collected: 12/30/15 10:25
Matrix: Solid
Date Received: 12/31/15 15:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		2.0	1.0	mg/Kg		12/31/15 15:41	01/04/16 10:30	5

Client Sample ID: S-Stepout-2

Lab Sample ID: 440-132686-2
Date Collected: 12/30/15 10:30
Matrix: Solid
Date Received: 12/31/15 15:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	96		2.0	0.99	mg/Kg		12/31/15 15:41	01/04/16 10:36	5

Client Sample ID: N-Stepout-1

Lab Sample ID: 440-132686-3
Date Collected: 12/30/15 10:50
Matrix: Solid
Date Received: 12/31/15 15:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		2.0	1.0	mg/Kg		12/31/15 15:41	01/04/16 10:37	5

Client Sample ID: N-Stepout-2

Lab Sample ID: 440-132686-4
Date Collected: 12/30/15 10:40
Matrix: Solid
Date Received: 12/31/15 15:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	63		2.0	1.0	mg/Kg		12/31/15 15:41	01/04/16 10:39	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132686-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

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

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132686-1

Client Sample ID: S-Stepout-1

Lab Sample ID: 440-132686-1

Date Collected: 12/30/15 10:25

Matrix: Solid

Date Received: 12/31/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	303441	12/31/15 15:41	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	303606	01/04/16 10:30	EN	TAL IRV

Client Sample ID: S-Stepout-2

Lab Sample ID: 440-132686-2

Date Collected: 12/30/15 10:30

Matrix: Solid

Date Received: 12/31/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	303441	12/31/15 15:41	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.02 g	50 mL	303606	01/04/16 10:36	EN	TAL IRV

Client Sample ID: N-Stepout-1

Lab Sample ID: 440-132686-3

Date Collected: 12/30/15 10:50

Matrix: Solid

Date Received: 12/31/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	303441	12/31/15 15:41	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	303606	01/04/16 10:37	EN	TAL IRV

Client Sample ID: N-Stepout-2

Lab Sample ID: 440-132686-4

Date Collected: 12/30/15 10:40

Matrix: Solid

Date Received: 12/31/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	303441	12/31/15 15:41	DT	TAL IRV
Total/NA	Analysis	6010B		5	2.00 g	50 mL	303606	01/04/16 10:39	EN	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132686-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-303441/1-A ^5
Matrix: Solid
Analysis Batch: 303606

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 303441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.98	mg/Kg		12/31/15 15:41	01/04/16 10:26	5

Lab Sample ID: LCS 440-303441/2-A ^5
Matrix: Solid
Analysis Batch: 303606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 303441

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			49.5	52.2		mg/Kg		105	80 - 120		

Lab Sample ID: 440-132686-1 MS
Matrix: Solid
Analysis Batch: 303606

Client Sample ID: S-Stepout-1
Prep Type: Total/NA
Prep Batch: 303441

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	17		49.8	63.6		mg/Kg		93	75 - 125		

Lab Sample ID: 440-132686-1 MSD
Matrix: Solid
Analysis Batch: 303606

Client Sample ID: S-Stepout-1
Prep Type: Total/NA
Prep Batch: 303441

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	17		49.5	61.8		mg/Kg		90	75 - 125	3	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132686-1

Metals

Prep Batch: 303441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132686-1	S-Stepout-1	Total/NA	Solid	3050B	
440-132686-1 MS	S-Stepout-1	Total/NA	Solid	3050B	
440-132686-1 MSD	S-Stepout-1	Total/NA	Solid	3050B	
440-132686-2	S-Stepout-2	Total/NA	Solid	3050B	
440-132686-3	N-Stepout-1	Total/NA	Solid	3050B	
440-132686-4	N-Stepout-2	Total/NA	Solid	3050B	
LCS 440-303441/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-303441/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 303606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132686-1	S-Stepout-1	Total/NA	Solid	6010B	303441
440-132686-1 MS	S-Stepout-1	Total/NA	Solid	6010B	303441
440-132686-1 MSD	S-Stepout-1	Total/NA	Solid	6010B	303441
440-132686-2	S-Stepout-2	Total/NA	Solid	6010B	303441
440-132686-3	N-Stepout-1	Total/NA	Solid	6010B	303441
440-132686-4	N-Stepout-2	Total/NA	Solid	6010B	303441
LCS 440-303441/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	303441
MB 440-303441/1-A ^5	Method Blank	Total/NA	Solid	6010B	303441

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-132686-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

Analysis Method	Prep Method	Matrix	Analyte

Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

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TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jim Goepel	Site Contact: Peter Shair	Date:	COC No: 1
Company: Parsons	Tel/Fax: 626-440-6013	Lab Contact: Danielle Roberts	Carrier: TA	1 of 1 COCs
City: 100 W. Walnut St., Pasadena	Analysis Turnaround Time			Job No. /
State/ZIP: CA 91024	Calendar (C) or Work Days (W) _____			
Phone: 626-440-6013 - Jim Goepel	TAT if different from Below _____			SDG No. 12/31/15 YC
FAX:	☐ 2 weeks			
Project Name: LAUSD Foshay LC	☐ 1 week			
Site: 3751 S. Harvard, LA, CA	☐ 2 days			
P O #	☑ 1 day			

440-132686 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample Lead 6010	Sample Specific Notes:
S-Stepout-1	12-30-15	1025	G	Soil	1	X	
S-Stepout-2	12-30-15	1030	G		1	X	
N-Stepout-1	12-30-15	1050	G		1	X	
N-Stepout-2	12-30-15	1040	G		1	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Poison B ☐ Unknown ☐

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments: Standard Turnaround Time

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by: Peter Shair	Parsons	12-31-15 0900		TA	12/31/15 0900
Relinquished by:	TA 12/31/15	1530	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TAI	Date/Time: 12/31/15 1530

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1/4/2016

VC
4.2/4.7 (R-7)

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-132686-1

Login Number: 132686
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine

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

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-133061-1
Client Project/Site: LAUSD Foshay Learning Center

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Jim Goepel

Authorized for release by:
1/7/2016 2:16:24 PM

Danielle Roberts, Senior Project Manager
(949)261-1022
danielle.roberts@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-133061-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-133061-1	N. BOTTOM -5d2.5	Solid	01/04/16 11:40	01/05/16 18:55

Job ID: 440-133061-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-133061-1

Comments
No additional comments.

Receipt
The sample was received on 1/5/2016 6:55 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.2º C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

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

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-133061-1

Client Sample ID: N. BOTTOM -5d2.5
Date Collected: 01/04/16 11:40
Date Received: 01/05/16 18:55

Lab Sample ID: 440-133061-1
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.7		2.0	1.0	mg/Kg		01/06/16 08:26	01/07/16 10:44	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-133061-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

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

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-133061-1

Client Sample ID: N. BOTTOM -5d2.5 — **Lab Sample ID: 440-133061-1**
Date Collected: 01/04/16 11:40 — **Matrix: Solid**
Date Received: 01/05/16 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	304001	01/06/16 08:26	K1E	TAL IRV
Total/NA	Analysis	6010B		5	2.01 g	50 mL	304310	01/07/16 10:44	EN	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-304001/1-A ^5
Matrix: Solid
Analysis Batch: 304310

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 304001

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		2.0	0.99	mg/Kg		01/06/16 08:26	01/07/16 10:34	5

Lab Sample ID: LCS 440-304001/2-A ^5
Matrix: Solid
Analysis Batch: 304310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 304001

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			49.8	48.8		mg/Kg		98	80 - 120		

Lab Sample ID: 440-132791-C-1-B MS ^5
Matrix: Solid
Analysis Batch: 304310

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 304001

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	1.0	J	49.5	54.7		mg/Kg		108	75 - 125		

Lab Sample ID: 440-132791-C-1-C MSD ^5
Matrix: Solid
Analysis Batch: 304310

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 304001

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.0	J	49.8	52.4		mg/Kg		103	75 - 125	4	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-133061-1

Metals

Prep Batch: 304001

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132791-C-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-132791-C-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	
440-133061-1	N. BOTTOM -5d2.5	Total/NA	Solid	3050B	
LCS 440-304001/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
MB 440-304001/1-A ^5	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 304310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-132791-C-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	304001
440-132791-C-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	304001
440-133061-1	N. BOTTOM -5d2.5	Total/NA	Solid	6010B	304001
LCS 440-304001/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	304001
MB 440-304001/1-A ^5	Method Blank	Total/NA	Solid	6010B	304001

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Foshay Learning Center

TestAmerica Job ID: 440-133061-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2706	06-30-16

Analysis Method	Prep Method	Matrix	Analyte

TestAmerica Irvine

17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

069493

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jim Goepel	Site Contact: Pete Shaw	Date:	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6013	Lab Contact: Danielle Roberts	Carrier: TA	1 of ____ COCs
Address: 100 W. Walnut St.	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6013	TAT if different from Below ____			Walk-in Client:
Fax: —	☐ 2 weeks			Lab Sampling:
Project Name: Foshay-LAUSD	☐ 1 week			
Site: 3751 N. Harvard, LA	☑ 2 days			Job / SDG No.:
P O #	☑ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead 6010	Sample Specific Notes:
N-Bottom-Sd 2.5	1-4-16	1140	G	Soil	1			X	

440-133061 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:____ Corr'd:____ | Therm ID No.:____

	Company	Date/Time		Company	Date/Time
Relinquished by: Pete Shaw	Parsons	1-4-16 1010	Received by:	TA	1/5/16 1040
Relinquished by:	TA 1/5/16	1855	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	TA-I	1/5/16 1855

1/5/16

1.4/1.2 IR-7.7

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-133061-1

Login Number: 133061
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

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

Appendix C.

Detailed Tonnage and Charge Report

Order: by Job (C-3475) Type: All
From 12/01/2015 to 01/11/2016

LAUSD (C-3475)

Site	Ticket	Date	Account	Truck	Code	Qty	Per Qty	Per Load	Frght/Add	Taxes	Total Charge	Paid
						----- Fees -----						
A	1149693	12/30/2015	NOVATIVE	001	30	9.68		0.00	$0.00	$0.00		$0.00
A	1149694	12/30/2015	NOVATIVE	193	30	18.76		0.00	$0.00	$0.00		$0.00
A	1149695	12/30/2015	NOVATIVE	112	30	15.29		0.00	$0.00	$0.00		$0.00
A	1150178	01/06/2016	NOVATIVE	127	30	18.36		0.00	$0.00	$0.00		$0.00
A	1150194	01/06/2016	NOVATIVE	57 GRN	30	18.01		0.00	$0.00	$0.00		$0.00

LAUSD (C-3475) Totals	Loads	Tons	Yards	Units	Other	Frght/Add	Taxes	Total Charge	Paid
	5	80.10	0.00	0.00	0.00	$0.00	$0.00		$0.00

Grand Totals	**Loads**	**Tons**	**Yards**	**Units**	**Other**	**Frght/Add**	**Taxes**	**Total Charge**	**Paid**
	5	**80.10**	**0.00**	**0.00**	**0.00**	**$0.00**	**$0.00**		**$0.00**

SOUTH YUMA COUNTY LANDFILL

PO BOX 125; Stanton, CA 90680-0125
928-341-9300

TRANSACTION INFORMATION

ACCOUNT#: INNOVATIVE

INNOVATIVE CONSTRUCTION SOLUTION
4011 W CHANDLER AVE

SANTA ANA, CA92704
JOB #: C-3475
HAULER: RUST & SONS
TRUCK LICENSE #:
PLEASE NOTE: Account Customers Only: A State of Arizona per ton landfill fee of $0.25 will be added to your Inv.

TICKET# : 1150194
DATE IN : 1/6/2016 TIME IN : 04:02 PM
DATE OUT: 1/6/2016 TIME OUT: 04:02 PM

TRUCK # : 57 GRN
CONTAINER #:

	WEIGHT IN	WEIGHT OUT	NET WEIGHT
REFUSE	65680 LBS	29660 LBS	18.01 TONS

NON -HAZ SOIL

CUSTOMER SIGNATURE

WEIGHMASTER/DEPUTY

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

THIS IS TO CERTIFY that the above described merchandise, was weighed, counted, [illegible] by the public or deputy weighmaster, and when properly signed, and [illegible] evidence of the accuracy of the weight shown as

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number: CAD982024689	2. Page 1 of: 1	3. Emergency Response Phone: 714 - 893 - 6366	4. Manifest Tracking Number: 014973612 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD
333 Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Greta Colonstein (213) 241 - 4200

Generator's Site Address (if different than mailing address)
LAUSD - Foshay Learning Center
3751 South Harvard Blvd., Los Angeles, CA 90018

Generator's Phone:

U.S. EPA ID Number: CAR000187421

6. Transporter 1 Company Name: RWI + SONS

U.S. EPA ID Number:

7. Transporter 2 Company Name

U.S. EPA ID Number:

8. Designated Facility Name and Site Address
South Yuma County Landfill
19536 S. Avenue 18E, Yuma, AZ 85366
(928) 341-9360

U.S. EPA ID Number: AZR000506980

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid	001	DT	18	Y	011
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
SYCL Profile No.: C - 3475
Soil: 98 -99%
Debris: 1 - 2%
Wear appropriate Personal Protective Equipment as necessary

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Alex Chair (Parsons) AGENT for LAUSD (on behalf of LAUSD) Signature: [signature] Month: 01 Day: 06 Year: 16

TRANSPORTER INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: M. M. CLARK Signature: [signature] Month: 1 Day: 06 Year: 16

Transporter 2 Printed/Typed Name Signature Month Day Year

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: U.S. EPA ID Number

18b. Alternate Facility (or Generator) Month Day Year

Facility's Phone:

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: NICHOLAS NAVARRO Signature: [signature] Month: 01 Day: 06 Year: 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY'S COPY

prescribed by law.

SOUTH YUMA COUNTY LANDFILL

PO BOX 125; Staton, CA 90680-0125
928-341-9300

ACCOUNT#: INNOVATIVE

INNOVATIVE CONSTRUCTION SOLUTION
4011 W CHANDLER AVE

SANTA ANA, CA92704
JOB #: C-3475
HAULER: RUST & SONS
TRUCK LICENSE #:
PLEASE NOTE: Account Customers Only: A State of Arizona per ton landfill fee of $0.25 will be added to your Inv.

TRANSACTION INFORMATION

TICKET# : 1150178
DATE IN : 1/6/2016 TIME IN : 02:48 PM
DATE OUT: 1/6/2016 TIME OUT: 02:48 PM

TRUCK # : 127
CONTAINER #:

	WEIGHT IN	WEIGHT OUT	NET WEIGHT
REFUSE	66880 LBS	30160 LBS	18.36 TONS

NON -HAZ SOIL

CUSTOMER SIGNATURE

WEIGHMASTER/DEPUTY

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

THIS IS TO CERTIFY that the above described merchandise, was weighed, counted, or measured by the public or deputy weighmaster, and when properly signed, and sealed, shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

form-m

#127

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved: OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982024689	1	714 - 895 - 6300	01497361 1 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD
333 Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Greta Colombian (213) 241 - 4260

Generator's Site Address (if different than mailing address)
LAUSD - Foshay Learning Center
3751 South Harvard Blvd., Los Angeles, CA 90018

Generator's Phone:

U.S. EPA ID Number: CAR000187922

6. Transporter 1 Company Name: Just 4 Sous Trucking

U.S. EPA ID Number:

7. Transporter 2 Company Name

U.S. EPA ID Number:

8. Designated Facility Name and Site Address
South Yuma County Landfill
19536 S. Avenue 1E, Yuma, AZ 85366
(928) 341-9300

U.S. EPA ID Number: AZR000506980

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid	001	DT	18	T	G11
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Soil: 98 -99%
Debris: 1 - 2%
SYCL Profile No.: C - 3475
Wear appropriate Personal Protective Equipment as necessary

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Peter Shaw (Person) agent for LAUSD (on behalf of LAUSD) Signature: Peter Shaw Month: 01 Day: 06 Year: 16

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Arau Signature: Month: 01 Day: 06 Year: 16

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number: U.S. EPA ID Number

18b. Alternate Facility (or Generator)

Facility's Phone: Month: Day: Year:

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Noah Rivera Signature: Month: 01 Day: 10 Year: 16

DESIGNATED FACILITY'S COPY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

SOUTH YUMA COUNTY LANDFILL

PO BOX 125; Staton, CA 90680-0125

928-341-9300

ACCOUNT#: INNOVATIVE

INNOVATIVE CONSTRUCTION SOLUTION
4011 W CHANDLER AVE

SANTA ANA, CA92704
JOB #: C-3475
HAULER: RUST & SONS
TRUCK LICENSE #:
PLEASE NOTE: Account Customers Only: A State of Arizona per ton landfill fee of $0.25 will be added to your Inv.

TRANSACTION INFORMATION

TICKET# : 1149693
DATE IN : 12/30/2015 TIME IN : 04:39 PM
DATE OUT: 12/30/2015 TIME OUT: 04:39 PM

TRUCK # : 001
CONTAINER #:

	WEIGHT IN	WEIGHT OUT	NET WEIGHT
REFUSE	51980 LBS	32620 LBS	9.68 TONS

NON -HAZ SOIL

CUSTOMER SIGNATURE

WEIGHMASTER/DEPUTY

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

THIS IS TO CERTIFY that the above described merchandise, was weighed, counted, or measured by the public or deputy weighmaster, and when properly signed, and ... prima facie evidence of the accuracy of the weight shown as

form-m

TRK 001

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number CAD982024689	2. Page 1 of 1	3. Emergency Response Phone 714 - 893 - 6366	4. Manifest Tracking Number 01497361 0 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD
333 Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Greta Galoustian (213) 241 - 4260

Generator's Site Address (if different than mailing address)
LAUSD - Foshay Learning Center
3751 South Harvard Blvd., Los Angeles, CA 90018

Generator's Phone:

6. Transporter 1 Company Name
PJST ANN SONS

U.S. EPA ID Number
CAR000187922

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
South Yuma County Landfill
19536 S. Avenue 1E, Yuma, AZ 85366
(928) 341-9300

U.S. EPA ID Number
AZR000506980

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid	001	DT	18	Y	011
	2.					
	3.					
	4. Clean up load					

14. Special Handling Instructions and Additional Information
Soil: 98 -99%
SYCL Profile No.: C - 3475
Debris: 1 - 2%
Wear appropriate Personal Protective Equipment as necessary

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Pete Shair (Parsons) Agent for (on behalf of LAUSD) Signature: Pete Sh Month: 12 Day: 30 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☑ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: MICHAEL LEAHY Signature: Month: 12 Day: 30 Year: 15

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number: U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone: Month: Day: Year:
18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Lonnie Owens Signature: Lonnie Owens Month: 12 Day: 30 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY'S COPY

Keyed weigh in,

SOUTH YUMA COUNTY LANDFILL

PO BOX 125; Staton, CA 90680-0125
928-341-9300

TRANSACTION INFORMATION

ACCOUNT#: INNOVATIVE

INNOVATIVE CONSTRUCTION SOLUTION
4011 W CHANDLER AVE

SANTA ANA, CA92704
JOB #: C-3475
HAULER: RUST & SONS
TRUCK LICENSE #:

TICKET# : 1149695
DATE IN : 12/30/2015 TIME IN : 04:40 PM
DATE OUT: 12/30/2015 TIME OUT: 04:40 PM

TRUCK # : 112
CONTAINER #:

PLEASE NOTE: Account Customers Only: A State of Arizona per ton landfill fee of $0.25 will be added to your Inv.

REFUSE	WEIGHT IN	WEIGHT OUT	NET WEIGHT
NON -HAZ SOIL	59580 LBS	29000 LBS	15.29 TONS

Michael Cruse
CUSTOMER SIGNATURE

WEIGHMASTER/DEPUTY

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

THIS IS TO CERTIFY that the above described merchandise, was weighed, counted, ... the public or deputy weighmaster, and when properly signed, and ... of the accuracy of the weight shown as

#112

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAD982024689
2. Page 1 of 1
3. Emergency Response Phone: 714 - 893 - 6366
4. Manifest Tracking Number: 014973609 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD
333 Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Greta Galoustian (213) 241 - 4260
Generator's Phone:

Generator's Site Address (if different than mailing address)
LAUSD - Foshay Learning Center
3751 South Harvard Blvd., Los Angeles, CA 90018
U.S. EPA ID Number: CAR000187682

6. Transporter 1 Company Name: RUST & SONS
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
South Yuma County Landfill
19536 S. Avenue 1E, Yuma, AZ 85366
(928) 341-9300
Facility's Phone:
U.S. EPA ID Number: AZR000506980

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid	001	DT	18	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Soil: 98 -99%
SYCL Profile No.: C - 3475
Debris: 1 - 2%
Wear appropriate Personal Protective Equipment as necessary

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Peter Shair (Pasons) Agent for (on behalf of LAUSD)
Signature: Pete Sh
Month: 12 Day: 30 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Michael Griggs JR
Signature:
Month: 12 Day: 30 Year: 15

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
U.S. EPA ID Number:

18b. Alternate Facility (or Generator)
Facility's Phone:
Month: Day: Year:

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Nalini Kuava
Signature:
Month: 12 Day: 30 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY'S COPY

or measured by the public or deputy weighmaster, and when properly signed, and sealed, shall be prima facie evidence of the accuracy of the weight shown as form-m prescribed by law.

Keyed Weigh In, Keyed Weigh Out

SOUTH YUMA COUNTY LANDFILL

PO BOX 125; Staton, CA 90680-0125

928-341-9300

ACCOUNT#: INNOVATIVE

INNOVATIVE CONSTRUCTION SOLUTION
4011 W CHANDLER AVE

SANTA ANA, CA92704
JOB #: C-3475
HAULER: RUST & SONS
TRUCK LICENSE #:
PLEASE NOTE: Account Customers Only: A State of Arizona per ton landfill fee of $0.25 will be added to your Inv.
REFUSE

NON -HAZ SOIL

CUSTOMER SIGNATURE

TRANSACTION INFORMATION

TICKET# : 1149694
DATE IN : 12/30/2015 TIME IN : 04:39 PM
DATE OUT: 12/30/2015 TIME OUT: 05:02 PM

TRUCK # : 193
CONTAINER #:

WEIGHT IN	WEIGHT OUT	NET WEIGHT
70300 LBS	32780 LBS	18.76 TONS

WEIGHMASTER/DEPUTY

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

THIS IS TO CERTIFY that the above described merchandise, was weighed, counted, or measured by the public or deputy weighmaster, and when properly signed, and sealed, shall be prima facie evidence of the accuracy of the weight shown as form-m prescribed by law.

Keyed Weigh In, Keyed Weigh Out

#193 11/19/94

Form Approved. OMB No. 2050-0039

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAD982024689	1	714 - 893 - 0366	014973608 JJK

GENERATOR

5. Generator's Name and Mailing Address
LAUSD
333 Beaudry Ave., 21st Floor, Los Angeles, CA 90017
Greta Galoustian (213) 241 - 4260

Generator's Site Address (if different than mailing address)
LAUSD - Foshay Learning Center
3751 South Harvard Blvd., Los Angeles, CA 90018

Generator's Phone:

6. Transporter 1 Company Name
KRUST & SONS
U.S. EPA ID Number
CAR000187922

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
South Yuma County Landfill
19536 S. Avenue 1E, Yuma, AZ 85366
(928) 341-9300
AZR000506980

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. Non-RCRA Hazardous Waste Solid	001	DT	18	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
Soil: 98 -99%
Debris: 1 - 2%
SYCL Profile No.: C - 3475
Wear appropriate Personal Protective Equipment as necessary

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Peter Shair (Parsons) agent for (on behalf of LAUSD)
Signature: Pete Shair
Month: 12 Day: 30 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Date leaving U.S.:
Transporter signature (for exports only):

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ARTHUR GRIGGS
Signature
Month: 12 Day: 30 Year: 15
Transporter 2 Printed/Typed Name:
Signature
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
U.S. EPA ID Number

18b. Alternate Facility (or Generator)
Facility's Phone:
Month: Day: Year:

18c. Signature of Alternate Facility (or Generator)

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a
Printed/Typed Name: Tommy Cuevas
Signature: Tommy Cuevas
Month: 12 Day: 30 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY'S COPY

Appendix D.

WHITTIER FERTILIZER CO.

9441 KRUSE ROAD
PICO RIVERA, CA 90660
(562) 699-3461

545985

Date 1/6/16

Name ICS Construction

Address 3751 S. Harvard

City Los Angeles Zip

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT	MDSE RETD	PAID OUT

QTY.		DESCRIPTION	PRICE	AMOUNT	
45 Yds	1	LAUSD Top Soil Del	12/30		
21 Yds	2	LAUSD Top Soil Del	1/6		
	3	Deliver			
	4				
	5	Tax			
	6				
	7				
	8				

ALL MATERIALS SOLD ARE DELIVERED TO CURB ONLY. NOT RESPONSIBLE FOR BROKEN SIDEWALKS, CURBS, DRIVEWAYS, LAWNS, ETC. WHEN DELIVERY IS REQUESTED ON PREMISES

Customer's Order No.	Rec'd By

KEEP THIS SLIP FOR REFERENCE

Appendix E.

102	**Lead**										
103											
104	**General Statistics**										
105			Total Number of Observations		19		Number of Distinct Observations				16
106							Number of Missing Observations				0
107			Minimum		3.7		Mean				55.88
108			Maximum		180		Median				36
109			SD		45.26		Std. Error of Mean				10.38
110			Coefficient of Variation		0.81		Skewness				1.268
111											
112	**Normal GOF Test**										
113			Shapiro Wilk Test Statistic		0.877		**Shapiro Wilk GOF Test**				
114			5% Shapiro Wilk Critical Value		0.901		Data Not Normal at 5% Significance Level				
115			Lilliefors Test Statistic		0.196		**Lilliefors GOF Test**				
116			5% Lilliefors Critical Value		0.203		Data appear Normal at 5% Significance Level				
117	**Data appear Approximate Normal at 5% Significance Level**										
118											
119	**Assuming Normal Distribution**										
120			**95% Normal UCL**				**95% UCLs (Adjusted for Skewness)**				
121			95% Student's-t UCL		73.88		95% Adjusted-CLT UCL (Chen-1995)				76.18
122							95% Modified-t UCL (Johnson-1978)				74.39
123											
124	**Gamma GOF Test**										
125			A-D Test Statistic		0.255		**Anderson-Darling Gamma GOF Test**				
126			5% A-D Critical Value		0.756		etected data appear Gamma Distributed at 5% Significance Lev				
127			K-S Test Statistic		0.121		**Kolmogrov-Smirnoff Gamma GOF Test**				
128			5% K-S Critical Value		0.202		etected data appear Gamma Distributed at 5% Significance Lev				
129	**Detected data appear Gamma Distributed at 5% Significance Level**										
130											
131	**Gamma Statistics**										
132			k hat (MLE)		1.585		k star (bias corrected MLE)				1.37
133			Theta hat (MLE)		35.25		Theta star (bias corrected MLE)				40.79
134			nu hat (MLE)		60.24		nu star (bias corrected)				52.06
135			MLE Mean (bias corrected)		55.88		MLE Sd (bias corrected)				47.74
136							Approximate Chi Square Value (0.05)				36.49
137			Adjusted Level of Significance		0.0369		Adjusted Chi Square Value				35.35
138											
139	**Assuming Gamma Distribution**										
140			95% Approximate Gamma UCL (use when n>=50))		79.73		95% Adjusted Gamma UCL (use when n<50)				82.3
141											
142	**Lognormal GOF Test**										
143			Shapiro Wilk Test Statistic		0.956		**Shapiro Wilk Lognormal GOF Test**				
144			5% Shapiro Wilk Critical Value		0.901		Data appear Lognormal at 5% Significance Level				
145			Lilliefors Test Statistic		0.0976		**Lilliefors Lognormal GOF Test**				
146			5% Lilliefors Critical Value		0.203		Data appear Lognormal at 5% Significance Level				
147	**Data appear Lognormal at 5% Significance Level**										
148											
149	**Lognormal Statistics**										
150			Minimum of Logged Data		1.308		Mean of logged Data				3.676
151			Maximum of Logged Data		5.193		SD of logged Data				0.934
152											
153	**Assuming Lognormal Distribution**										
154			95% H-UCL		106.4		90% Chebyshev (MVUE) UCL				101.2
155			95% Chebyshev (MVUE) UCL		120.3		97.5% Chebyshev (MVUE) UCL				146.7
156			99% Chebyshev (MVUE) UCL		198.6						
157											
158	**Nonparametric Distribution Free UCL Statistics**										
159	**Data appear to follow a Discernible Distribution at 5% Significance Level**										
160											
161	**Nonparametric Distribution Free UCLs**										
162			95% CLT UCL		72.96		95% Jackknife UCL				73.88
163			95% Standard Bootstrap UCL		72.94		95% Bootstrap-t UCL				77.97
164			95% Hall's Bootstrap UCL		80.28		95% Percentile Bootstrap UCL				73.04
165			95% BCA Bootstrap UCL		75.62						
166			90% Chebyshev(Mean, Sd) UCL		87.03		95% Chebyshev(Mean, Sd) UCL				101.1
167			97.5% Chebyshev(Mean, Sd) UCL		120.7		99% Chebyshev(Mean, Sd) UCL				159.2
168											
169	**Suggested UCL to Use**										
170			95% Student's-t UCL		73.88						
171											
172	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.										
173	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)										
174	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.										
175	For additional insight the user may want to consult a statistician.										
176											

APPENDIX E

HUMAN HEALTH SCREENING EVALUATION SUPPORTING CALCULATIONS

Table E-1
Descriptive Statistical Summary for Soil Samples
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituent	Sample Summary [a]			Concentration Range and Summary [a]						95% Upper Confidence Limit (UCL) [c]	Exposure Point Concentration [d]	
	Total Soil Samples Analyzed	Samples Detected	Percent Detected	Range of Non-Detect (mg/kg)	Minimum Detected (mg/kg)	Location of Minimum	Maximum Detected (mg/kg)	Location of Maximum	Arithmetic Mean [b] (mg/kg)	(mg/kg)	(mg/kg)	Basis
Metals												
Arsenic	78	78	100%	0.25 - 0.75	1.27	SG-1-0.5	18.4	BD6-E-0.5	3.60	5.3	NQ	--
Lead	48	48	100%	0.5	2.1	BD2-W-0.5	100	BD4-N-0.5	21.0	35.8	35.8	UCL
Pesticides												
4,4'-DDE (DDE)	22	5	23%	0.002	0.0023	BD23-(E,S,W)-0.5	0.062	BD15-(Na,Wa,Wb)-0.5	0.0168	0.012	0.0120	UCL
4,4'-DDT (DDT)	22	5	23%	0.002	0.0024	BD6-(N,E,S)-0.5	0.033	BD15-Nb-0.5	0.0166	0.0093	0.0093	UCL
alpha Chlordane	22	6	27%	0.001	0.0020	B1-0.5	0.020	BD15-(Nb,Ea,Eb)-0.5	0.0088	0.0051	0.0051	UCL
Chlordane	22	7	32%	0.0085	0.0100	BD15-Nb-0.5	0.130	BD15-(Nb,Ea,Eb)-0.5	0.051	0.0385	0.0385	UCL
gamma Chlordane	22	7	32%	0.001	0.0010	BD6-(N,E,S)-0.5	0.011	BD15-(Nb,Ea,Eb)-0.5	0.0039	0.00309	0.0031	UCL
Dieldrin	22	5	23%	0.002	0.0023	BD23-(E,S,W)-0.5	0.012	BD15-(Nb,Ea,Eb)-0.5	0.0069	0.0045	0.0045	UCL
Volatile Organic Compounds												
Acetone	2	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	--
Benzene	2	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	--
2-Butanone	2	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	--
Carbon Tetrachloride	2	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	--
Tetrachloroethylene (PCE)	2	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	--
Total xylenes	2	0	0%	NA	NA	NA	NA	NA	NA	NA	NA	--

Abbreviations:
-- = not applicable
mg/kg = milligrams per kilogram
NA = not available
NQ = Not Quantified, as the 95% UCL concentration of arsenic is below representative background levels

Footnotes:
[a] Data set used in this evaluation excludes samples that were removed during interim soil removal activities completed in Winter 2015. The higher concentration of the original or duplicate sample was retained for the statistical analysis
[b] Arithmetic mean based on detected values only
[c] The 95% upper confidence limit (UCL) calculated using United States Environmental Protection Agency (USEPA) ProUCL Model Version 5.0.00 published September 2013. ProUCL outputs are provided in Appendix F.
UCL values include the highest concentration detected in the original sample or the duplicate sample, if applicable.
[d] The EPC is the 95% UCL. If there was insufficient data to calculate a meaningful 95% UCL or the 95% UCL was greater than the maximum concentration, then the maximum concentration was selected as the EPC.

Table E-2
Descriptive Statistical Summary for Soil Vapor Samples
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituent	Sample Summary [a]			Concentration Range and Summary [a]				
	Total Soil Vapor Samples Analyzed	Samples Detected	Percent Detected	Range of Non-Detect ($\mu g/m^3$)	Minimum Detected ($\mu g/m^3$)	Location of Minimum	Maximum Detected ($\mu g/m^3$)	Location of Maximum
Volatile Organic Compounds								
Acetone	8	7	88%	24	72	SG2-15-Con	300	SG1-5'
Benzene	8	1	13%	3.2 - 16	17	SG1-15',1PV	17	SG1-15',1PV
2-Butanone	8	1	13%	30 - 60	76	SG1-5'	76	SG1-5'
Carbon Tetrachloride	8	1	13%	6.4 - 13	16	SG1-5'	16	SG1-5'
Tetrachloroethylene (PCE)	8	3	38%	34	28	SG2-15-Con	51	SG2-15'
Total xylenes	8	3	38%	3.8	16	SG2-15-Con	51	SG2-15'

Abbreviations:
$\mu g/m^3$ = micrograms per cubic meter
NA = not available

Footnotes:
[a] The soil vapor data set used in this evaluation provided in Table 5 and includes all pore volume, replicate and confirmation samples

Table E-3
Summary of Exposure Parameters
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Exposure Parameter	Symbol	Units	Residential Receptor		Onsite Staff	Construction Worker
			Adult	Child		
Common Exposure Parameters						
Exposure Frequency	EF	days/year	350	350	250	250
Exposure Duration	ED	year	20	6	25	1
Body Weight	BW	kg	80	15	80	80
Averaging Time-Non-cancer	ATnc	days	7,300	2,190	9,125	365
Averaging Time-Cancer	ATca	days	25,550	25,550	25,550	25,550
Inhalation						
Exposure Time	ET	hours/day	24	24	8	8
Incidental Soil Ingestion						
Ingestion Rate	IngR	mg/day	100	200	100	330
Dermal Contact with Soil						
Skin Surface Area	SA	cm^2	6032	2900	6032	6032
Soil-to-Skin Adherence Factor	SAF	mg/cm^2-day	0.07	0.2	0.2	0.8

Abbreviations:

cm^2 = centimeter squared

kg = kilograms

mg/cm^2-day= milligrams per centimeter squared per day

mg/day= milligrams per day

References

Common Exposure Parameters

Exposure frequency from DTSC, 2014

Exposure durations from DTSC, 2014

Body weight from DTSC, 2014

Averaging time for noncarcinogens equals exposure duration (years) x 365 days per year (DTSC, 2014)

Averaging time for carcinogens equal 365 days/year x 70 years (DTSC, 2014)

Inhalation

Exposure time:

Residential assumes a full day (24-hour) exposure (USEPA, 2009) for both indoor and ambient exposure scenarios

Occupational and construction workers assumed to have an eight hour work day (DTSC, 2014)

Incidental Ingestion of Soil

Soil ingestion rates from DTSC, 2014

Dermal Contact with Soil

Skin surface area from DTSC, 2014

Soil-to-Skin adherence factor from DTSC, 2014

Department of Toxic Substances Control (DTSC), 2014, Recommended DTSC Default Exposure Factors for Use in Risk Assessment at California Hazardous Waste Sites and Permitted Facilities, Office of Human and Ecological Risk (HERO), HERO Human Health Risk Assessment (HHRA) Note Number: 1, Issue Date: September 30, 2014

United States Environmental Protection Agency (USEPA), 2009, Risk Assessment Guidance for Superfund, Volume I: Human Health Evaluation Manual (Part F, Supplemental Guidance for Inhalation Risk Assessment), Final: Office of Superfund Remediation and Technology Innovation, Washington, D.C.

Table E-4
Calculation of Particulate Emission Factor for Fugitive Dust
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Factors	Symbols	Units	Values	References
Respirable Fraction	RF	g/m^2-hr	0.036	Default (EPA, 1991b)
Fraction of Vegetation Cover	V	unitless	0.5	Default (EPA, 1991b)
Mean Annual Wind Speed	U_m	m/s	4.5	Default (EPA, 1996)
Threshold Wind Speed	U_t	m/s	12.8	Default (EPA, 1996)
Function Specific to Model	F_x	unitless	3.52E-01	Default (Cowherd, 1985; EPA, 1996)
Total Dust Flux (<10 Um)	E	g/m^2-hr	2.7E-04	Calculated
Area of Impacted Soil Exposed [a]	A	m^2	3.69E+04	Site Specific (estimated)
Wind speed in mixing zone	WS	m/s	2.25E+00	Default (EPA, 1991b)
Length of Soil Perpendicular to Wind Direction	LS	m	305	Site Specific (estimated)
Mixing Height	MH	m	2	Default (EPA, 1991b)
Particulate Emission Factor	PEF	m^3/kg	4.9E+08	Calculated

Equations

Total Dust Flux (<10 Um)

$$E = RF \times (1-V) \times (U_m/U_t)^3 \times F_x$$

Particulate Emission Factor

$$PEF = [(LS \times WS \times MH \times 3600 \text{ sec/hour}) / A] \times [(1000 \text{ g/kg}) / E]$$

Abbreviations:

g/kg = grams per kilogram
g/m^2-hr = grams per meter squared per hour
m = meter
m/s = meters per second
m^2 = meter squared
m^3/kg = cubic meter per kilogram

Footnotes:

[a] Area of impacted soil exposed is calculated as a roughly rectangular shaped area that encompasses the main areas of excavation that is approximately 750 feet long by 530 feet wide.

References:

Cowherd, C., G. Muleski, P. Engelhart, and D. Gillette. 1985. Rapid Assessment of Exposure to Particulate Emissions from Surface Contamination. EPA/600/8-85/002. NTIS PB85-192219. Office of Health and Environmental Assessment, United States Environmental Protection Agency, Washington, DC.

United States Environmental Protection Agency (USEPA), 1991b, Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part B, Development of Risk-Based Preliminary Remediation Goals. Publication 9285.7-01B. December).

USEPA, 1996, Soil Screening Guidance: Technical Background Document. EPA/540/R95/128. May.

Table E-5
Summary of Predicted Indoor Air Concentrations
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituent	Maximum Detected Soil Gas Concentration ($\mu g/m^3$)	Maximum Predicted Indoor Air Concentration [a] ($\mu g/m^3$)
Volatile Organic Compounds		
Acetone	300	0.300
Benzene	1	0.001
2-Butanone	76	0.076
Carbon Tetrachloride	16	0.016
Tetrachloroethylene (PCE)	51	0.051
Total xylenes	51	0.051

Abbreviations:
$\mu g/m^3$ = micrograms per cubic meter
mg/m^3 = milligrams per cubic meter
NA = not available

Footnotes:
[a] The indoor and ambient air concentrations were calculated using the maximum soil vapor concentration, multiplied by a default attenuation factor of 0.001. Ambient air exposures and risks are assumed to be equal to indoor air.

Table E-6
Summary of Constituent Toxicity Criteria
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituent	Carcinogenic									Chronic Noncarcinogenic						
	Oral			Dermal [c]		Inhalation				Oral		Dermal [c]		Inhalation		
	Slope Factor (SFo) $(mg/kg\text{-}day)^{-1}$	Source [a]	Weight- of-evidence [b]	Dermal Adjustment Factor (ABS_{GI})	Slope Factor (SFd) $(mg/kg\text{-}day)^{-1}$	Unit Risk Factor (URF) $(\mu g/m^3)^{-1}$	Slope Factor (SFi) $(mg/kg\text{-}day)^{-1}$	Source [a]	Weight- of-evidence [b]	Reference Dose (RfDo) (mg/kg-day)	Source [a]	Dermal Adjustment Factor (ABS_{GI})	Reference Dose (RfDd) (mg/kg-day)	Reference Concentration (RfC) $(\mu g/m^3)$	Reference Dose (RfDi) (mg/kg-day)	Source [a]
Metals																
Lead	LeadModel	LeadModel	B2	--	LeadModel	LeadModel	LeadModel	LeadModel	B2	LeadModel	LeadModel	--	LeadModel	LeadModel	LeadModel	--
Pesticides																
4,4'-DDE (DDE)	3.4E-01	CalEPA	B2	1	3.40E-01	9.7E-05	3.4E-01	CalEPA	B2	NA	NA	1	NA	4.00E-05	1.1E-08	OEHHA
4,4'-DDT (DDT)	3.4E-01	CalEPA	B2	1	3.40E-01	9.7E-05	3.4E-01	CalEPA	B2	5.0E-04	IRIS	1	NA	4.00E-05	1.1E-08	OEHHA
alpha Chlordane	1.3E+00	CalEPA	B2	1	1.30E+00	3.4E-04	1.2E+00	OEHHA	B2	3.3E-05	OEHHA	1	3.30E-05	7.00E-01	2.0E-04	IRIS
Chlordane	1.3E+00	CalEPA	B2	1	1.30E+00	3.4E-04	1.2E+00	OEHHA	B2	3.3E-05	OEHHA	1	3.30E-05	7.00E-01	2.0E-04	IRIS
gamma Chlordane	1.3E+00	CalEPA	B2	1	1.30E+00	3.4E-04	1.2E+00	OEHHA	B2	3.3E-05	OEHHA	1	3.30E-05	7.00E-01	2.0E-04	IRIS
Dieldrin	1.6E+01	CalEPA	B2	1	1.60E+01	4.6E-03	1.6E+01	OEHHA	B2	5.0E-05	IRIS	1	5.00E-05	NA	NA	NA
Volatile Organic Compounds																
Acetone	NA	--	NA	1	NA	NA	NA	--	NA	9.0E-01	IRIS	1	9.00E-01	3.10E+04	8.9E+00	ATSDR
Benzene	1.00E-01	OEHHA	A	1	1.00E-01	2.9E-05	1.0E-01	OEHHA	A	4.0E-03	IRIS	1	4.00E-03	3.00E+00	8.6E-04	OEHHA
2-Butanone	NA	--	ID	1	NA	NA	NA	--	ID	6.0E-01	IRIS	1	6.00E-01	5.00E+03	1.4E+00	IRIS
Carbon Tetrachloride	1.50E-01	OEHHA	B2	1	1.50E-01	4.20E-05	1.5E-01	OEHHA	B2	4.0E-03	IRIS	1	4.00E-03	4.00E+01	1.1E-02	OEHHA
Tetrachloroethylene (PCE)	5.4E-01	OEHHA PHG	B2	1	5.40E-01	5.90E-06	2.1E-02	OEHHA	B2	6.0E-03	IRIS	1	6.00E-03	4.00E+01	1.1E-02	IRIS
Total xylenes	NA	--	ID	1	NA	NA	NA	--	ID	2.0E-01	IRIS	1	2.00E-01	7.00E+02	2.0E-01	OEHHA

Abbreviations:
-- = Not applicable
LeadModel = Residential Receptors evaluated by LeadSpread 8 (Table E-23) and Occupational and Construction workers by Adult Lead Model (Tables E-24 and E-25, respectively)
mg/kg-day = milligrams per kilograms-day
NA = Not available
$\mu g/m^3$ = micrograms per cubic meter

Footnotes:
[a] Sources for the toxicity criteria from the following sources:
ATSDR = Agency for Toxic Substances Disease Registry, from United States Environmental Protection Agency (USEPA) November 2015 Regional Screening Levels for Chemical Contaminants at Superfund Sites
HEAST = Health Effects Assessment Summary Tables (HEAST), from USEPA November 2015 Regional Screening Levels for Chemical Contaminants at Superfund Sites
IRIS = Integrated Risk Information System (IRIS) Data Base, USEPA accessed March 2016
NJDEP = New Jersey Department of Environmental Protection, from USEPA November 2015 Regional Screening Levels for Chemical Contaminants at Superfund Sites
OEHHA = Office of Environmental Health Hazard Assessment (OEHHA), OEHHA accessed March 2016, Toxicity Criteria Database.
PPRTV = Provisional Peer Reviewed Toxicity Values, from USEPA November 2015 Regional Screening Levels for Chemical Contaminants at Superfund Sites
RSLs = Regional Screening Levels, from USEPA November 2015 Regional Screening Levels for Chemical Contaminants at Superfund Sites
[b] Weight-of-Evidence (Guidelines for Carcinogen Risk Assessment, Final, EPA/630/R-03/001F, March 2005.)
A = Known human carcinogen
B1 = Probable human carcinogen - based on limited evidence of carcinogenicity in humans (or Group 2A per IARC classification)
B2 = Likely to be carcinogenic to humans based on strong evidence of carcinogenicity in animals and inconclusive evidence of carcinogenicity in an exposed human population
C = Possible human carcinogen
D = Inadequate evidence to assess carcinogenic potential
ID = Inadequate information to assess carcinogenic potential according to the Draft U.S. EPA 1999 or the Final 2005 Guidelines for Carcinogen Risk Assessment
[c] The dermal slope factor and reference dose for metals were calculated using the following equations:
$SFd = SFo \times 1/ABS_{GI}$
$RfDd = RfDo \times ABS_{GI}$

Table E-7
Incidental Ingestion of Soil - Residential Receptor
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration (EPC) Soil [a]	Average Daily Dose [b]	Oral Chronic Reference Dose [c]	Hazard Quotient [b]	Lifetime Daily Dose	Oral Slope Factor [c]	Incremental Cancer Risk
	Cs	ADD	RfDo	HQ	LDD	SFo	CR
	(mg/kg)	(mg/kg-d)	(mg/kg-d)	(unitless)	(mg/kg-d)	$(mg/kg\text{-}d)^{-1}$	(unitless)
Metals							
Lead	35.8	4.6E-04	LeadModel	NA	NA	LeadModel	NA
Pesticides							
4,4'-DDE (DDE)	0.012	1.5E-07	NA	NA	1.7E-08	3.4E-01	5.9E-09
4,4'-DDT (DDT)	0.00932	1.2E-07	5.0E-04	2.4E-04	1.3E-08	3.4E-01	4.6E-09
alpha Chlordane	0.00509	6.5E-08	3.3E-05	2.0E-03	7.3E-09	1.3E+00	9.5E-09
Chlordane	0.03845	4.9E-07	3.3E-05	1.5E-02	5.5E-08	1.3E+00	7.2E-08
gamma Chlordane	0.003088	3.9E-08	3.3E-05	1.2E-03	4.4E-09	1.3E+00	5.8E-09
Dieldrin	0.00447	5.7E-08	5.0E-05	1.1E-03	6.4E-09	1.6E+01	1.0E-07
Volatile Organic Compounds							
Acetone	NA	NA	9.0E-01	NA	NA	NA	NA
Benzene	NA	NA	4.0E-03	NA	NA	1.0E-01	NA
2-Butanone	NA	NA	6.0E-01	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	4.0E-03	NA	NA	1.5E-01	NA
Tetrachloroethylene (PCE)	NA	NA	6.0E-03	NA	NA	5.4E-01	NA
Total xylenes	NA	NA	2.0E-01	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [d] =				2.E-02			2.E-07

Equations

Noncancer

Average Daily Dose (ADD)

$$ADD = (Cs \times IngR \times EF \times ED \times FI \times CF_{kg/mg}) / (AT_{nc} \times BW)$$

Hazard Quotient (HQ)

$$HQ = AADD / RfDo$$

Cancer

Lifetime Daily Dose (LDD)

$$LDD = (Cs \times IngF \times EF \times FI \times CF_{kg/mg}) / AT_{c}$$

Excess Cancer Risk (CR)

$$CR = LADD \times SFo$$

Ingestion Rate Factor (IngF)

$$IngF = ([ED_{c} \times IngR_{c}] / BW_{c}) + ([ED_{a} \times IngR_{a}] / BW_{a})$$

Abbreviations:

kg = kilograms
kg/mg = kilograms per milligram
LeadModel = Evaluated by LeadSpread 8, Table E-23
mg/day = milligrams per day
mg/kg = milligrams per kilogram
mg/kg-d = milligrams per kilogram per day
mg-yr/kg-day = milligrams-year per kilogram-day
NA = not applicable

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Body Weight	BW	Table E-3	kg
Conversion Factor	$CF_{kg/mg}$	0.000001	kg/mg
Exposure Duration	ED	Table E-3	year
Exposure Frequency	EF	Table E-3	days/year
Fraction Ingested from Source	FI	1	unitless
Ingestion Rate	IngR	Table E-3	mg/day

Footnotes:

a From Table E-1.

[b] The ADD was calculated for a child residential receptor, since the child represents the most sensitive residential receptor.

[c] From Table E-6.

[d] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks

Table E-8
Dermal Contact with Soil - Residential Receptor
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Soil [a]	Dermal Absorption Fraction from Soil [b]	Average Daily Dose [c]	Dermal Chronic Reference Dose [d]	Hazard Quotient [c]	Lifetime Daily Dose	Oral Slope Factor [d]	Incremental Cancer Risk [e]
	Cs	ABS_d	ADD	RfDd	HQ	LDD	SFo	CR
	(mg/kg)	(unitless)	(mg/kg-d)	(mg/kg-d)	(unitless)	(mg/kg-d)	$(mg/kg\text{-}d)^{-1}$	(unitless)
Metals								
Lead	35.8	0.01	1.3E-05	LeadModel	NA	1.7E-06	LeadModel	NA
Pesticides								
4,4'-DDE (DDE)	0.012	0.05	2.2E-08	NA	NA	2.8E-09	3.4E-01	9.4E-10
4,4'-DDT (DDT)	0.00932	0.05	1.7E-08	NA	NA	2.2E-09	3.4E-01	7.3E-10
alpha Chlordane	0.00509	0.05	9.4E-09	3.3E-05	2.9E-04	1.2E-09	1.3E+00	1.5E-09
Chlordane	0.03845	0.05	7.1E-08	3.3E-05	2.2E-03	8.9E-09	1.3E+00	1.2E-08
gamma Chlordane	0.003088	0.05	5.7E-09	3.3E-05	1.7E-04	7.1E-10	1.3E+00	9.3E-10
Dieldrin	0.00447	0.05	8.3E-09	5.0E-05	1.7E-04	1.0E-09	1.6E+01	1.7E-08
Volatile Organic Compounds								
Acetone	NA	0.01	NA	9.0E-01	NA	NA	NA	NA
Benzene	NA	0.01	NA	4.0E-03	NA	NA	1.0E-01	NA
2-Butanone	NA	0.01	NA	6.0E-01	NA	NA	NA	NA
Carbon Tetrachloride	NA	0.01	NA	4.0E-03	NA	NA	1.5E-01	NA
Tetrachloroethylene (PCE)	NA	0.01	NA	6.0E-03	NA	NA	5.4E-01	NA
Total xylenes	NA	0.01	NA	2.0E-01	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [e] =					3.E-03			3.E-08

Equations

Noncancer

Average Daily Dose (ADD)

$$ADD = (Cs \times SA \times SAF \times ABS_d \times EF \times ED \times CF_{kg/mg}) / (AT_{nc} \times BW)$$

Hazard Quotient (HQ)

$$HQ = AADD / RfDd$$

Cancer

Lifetime Daily Dose (LDD)

$$LDD = (Cs \times DF \times ABS_d \times EF \times CF_{kg/mg}) / AT_c$$

Excess Cancer Risk (CR)

$$CR = LADD \times SFd$$

Dermal Factor (DF)

$$DF = ([ED_c \times SA_c \times SAF_c] / BW_c) + ([ED_a \times SA_a \times SAF_a] / BW_a)$$

Abbreviations:

cm^2 = centimeter squared
kg = kilograms
kg/mg = kilograms per milligram
LeadModel = Evaluated by LeadSpread 8, Table E-23
mg/cm^2-d = milligrams per centimeter squared per day
mg/kg = milligrams per kilogram
mg/kg-d = milligrams per kilogram per day
mg-yr/kg-day = milligrams-year per kilogram-day
NA = not applicable

Footnotes:

[a] From Table E-1.

[b] United States Environmental Protection Agency (USEPA), 2004, Risk Assessment Guidance for Superfund: Volume I Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment), EPA/540/R/99/005. July.

[c] The ADD was calculated for a child residential receptor, since the child represents the most sensitive residential receptor.

[d] From Table E-6.

[e] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks.

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Body Weight	BW	Table E-3	kg
Conversion Factor	$CF_{kg/mg}$	0.000001	kg/mg
Dermal Factor	DF	338	mg-yr/kg-day
Exposure Duration	ED	Table E-3	year
Exposure Frequency	EF	Table E-3	days/year
Soil-to-Skin Adherence Factor	SAF	Table E-3	mg/cm^2-d
Surface Area	SA	Table E-3	cm^2

Table E-9
Inhalation to Fugitive Dust - Residential Receptor
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Soil [a]	Averaged Air Concentration [b]	Inhalation Chronic Reference Concentration [c]	Hazard Quotient [b]	Lifetime Air Concentration	Inhalation Unit Risk Factor [c]	Incremental Cancer Risk
	Cs	AAC	RfC	HQ	LAC	IUR	CR
	(mg/kg)	($\mu g/m^3$)	($\mu g/m^3$)	(unitless)	($\mu g/m^3$)	($\mu g/m^3)^{-1}$	(unitless)
Metals							
Lead	35.8	7.1E-05	LeadModel	NA	2.6E-05	LeadModel	NA
Pesticides							
4,4'-DDE (DDE)	0.012	2.4E-08	4.0E-05	5.9E-04	8.8E-09	9.7E-05	8.5E-13
4,4'-DDT (DDT)	0.00932	1.8E-08	4.0E-05	4.6E-04	6.8E-09	9.7E-05	6.6E-13
alpha Chlordane	0.00509	1.0E-08	7.0E-01	1.4E-08	3.7E-09	3.4E-04	1.3E-12
Chlordane	0.03845	7.6E-08	7.0E-01	1.1E-07	2.8E-08	3.4E-04	9.6E-12
gamma Chlordane	0.003088	6.1E-09	7.0E-01	8.7E-09	2.3E-09	3.4E-04	7.7E-13
Dieldrin	0.00447	8.8E-09	NA	NA	3.3E-09	4.6E-03	1.5E-11
Volatile Organic Compounds							
Acetone	NA	NA	3.1E+04	NA	NA	NA	NA
Benzene	NA	NA	3.0E+00	NA	NA	2.9E-05	NA
2-Butanone	NA	NA	5.0E+03	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	4.0E+01	NA	NA	4.2E-05	NA
Tetrachloroethylene (PCE)	NA	NA	4.0E+01	NA	NA	5.9E-06	NA
Total xylenes	NA	NA	7.0E+02	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [d] =				1.E-03			3.E-11

Equations

Noncancer

Averaged Air Concentration (AAC)

$$AAC = ((Cs/PEF) \times ET \times EF \times ED \times CF_{\mu g/mg}) / (AT_{nc} \times CF_{hr/d})$$

Hazard Quotient (HQ)

$$HQ = AAC / RfC$$

Cancer

Lifetime Air Concentration (LAC)

$$LAC = ((Cs/PEF) \times ET \times EF \times EDF \times CF_{\mu g/mg}) / (AT_{c} \times CF_{hr/d})$$

Excess Cancer Risk (CR)

$$CR = LAC \times IUR$$

Exposure Duration Factor (EDF)

$$EDF = (ED_c + ED_a)$$

Abbreviations:

kg = kilograms
LeadModel = Evaluated by LeadSpread 8, Table E-23
m^3/kg = cubic meter per kilogram
mg/kg = milligrams per kilogram
NA = not applicable
$\mu g/m^3$ = micrograms per cubic meter
µg/mg = micrograms per milligrams

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Body Weight	BW	Table E-3	kg
Conversion Factor	$CF_{hr/d}$	24	hours/day
Conversion Factor	$CF_{\mu g/mg}$	1000	µg/mg
Exposure Duration	ED	Table E-3	year
Exposure Duration Factor	EDF	26	year

Table E-10
Inhalation of Indoor Air - Residential Receptor
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Indoor Air [a]	Averaged Air Concentration [b]	Inhalation Chronic Reference Concentration [c]	Hazard Quotient [b]	Lifetime Air Concentration	Inhalation Unit Risk Factor [c]	Incremental Cancer Risk
	Cia	AAC	RfC	HQ	LAC	IUR	CR
	($\mu g/m^3$)	($\mu g/m^3$)	($\mu g/m^3$)	(unitless)	($\mu g/m^3$)	$(\mu g/m^3)^{-1}$	(unitless)
Metals							
Lead	NA	NA	LeadModel	NA	NA	LeadModel	NA
Pesticides							
4,4'-DDE (DDE)	NA	NA	4.0E-05	NA	NA	9.7E-05	NA
4,4'-DDT (DDT)	NA	NA	4.0E-05	NA	NA	9.7E-05	NA
alpha Chlordane	NA	NA	7.0E-01	NA	NA	3.4E-04	NA
Chlordane	NA	NA	7.0E-01	NA	NA	3.4E-04	NA
gamma Chlordane	NA	NA	7.0E-01	NA	NA	3.4E-04	NA
Dieldrin	NA	NA	NA	NA	NA	4.6E-03	NA
Volatile Organic Compounds							
Acetone	3.0E-01	2.9E-01	3.1E+04	9.3E-06	1.1E-01	NA	NA
Benzene	1.0E-03	9.6E-04	3.0E+00	3.2E-04	3.6E-04	2.9E-05	1.0E-08
2-Butanone	7.6E-02	7.3E-02	5.0E+03	1.5E-05	2.7E-02	NA	NA
Carbon Tetrachloride	1.6E-02	1.5E-02	4.0E+01	3.8E-04	5.7E-03	4.2E-05	2.4E-07
Tetrachloroethylene (PCE)	5.1E-02	4.9E-02	4.0E+01	1.2E-03	1.8E-02	5.9E-06	1.1E-07
Total xylenes	5.1E-02	4.9E-02	7.0E+02	7.0E-05	1.8E-02	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [d] =				2.E-03			4.E-07

Equations

Noncancer

Averaged Air Concentration (AAC)

$$AAC = (Cia \times ET \times EF \times ED) / (AT_{nc} \times CF_{hr/d})$$

Hazard Quotient (HQ)

$$HQ = AAC / RfC$$

Cancer

Lifetime Air Concentration (LAC)

$$LAC = (Cia \times ET \times EF \times [EDc + EDa]) / (AT_{c} \times CF_{hr/d})$$

Excess Cancer Risk (CR)

$$CR = LAC \times IUR$$

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Conversion Factor	$CF_{hr/d}$	24	hours/day
Exposure Duration	ED	Table E-3	year
Exposure Frequency	EF	Table E-3	days/year
Exposure Time	ET	Table E-3	hours/day

Abbreviations:
NA = not applicable
$\mu g/m^3$ = micrograms per cubic meter

Footnotes:
[a] From Table E-5.
[b] The AAC was calculated for a child residential receptor, since the child represents the most sensitive residential receptor.
[c] From Table E-6.
[d] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks.
Indoor air exposures are based on the assumption of a 24-hour/day exposure time.

Table E-11
Incidental Ingestion of Soil - School Staff
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Soil [a]	Average Daily Dose	Oral Chronic Reference Dose [b]	Hazard Quotient	Lifetime Daily Dose	Oral Slope Factor [b]	Incremental Cancer Risk
	Cs	ADD	RfDo	HQ	LDD	SFo	CR
	(mg/kg)	(mg/kg-d)	(mg/kg-d)	(unitless)	(mg/kg-d)	$(mg/kg\text{-}d)^{-1}$	(unitless)
Metals							
Lead	35.8	NA	LeadModel	NA	NA	LeadModel	NA
Pesticides							
4,4'-DDE (DDE)	0.012	1.0E-08	NA	NA	3.7E-09	3.4E-01	1.2E-09
4,4'-DDT (DDT)	0.00932	8.0E-09	5.0E-04	1.6E-05	2.8E-09	3.4E-01	9.7E-10
alpha Chlordane	0.00509	4.4E-09	3.3E-05	1.3E-04	1.6E-09	1.3E+00	2.0E-09
Chlordane	0.03845	3.3E-08	3.3E-05	1.0E-03	1.2E-08	1.3E+00	1.5E-08
gamma Chlordane	0.003088	2.6E-09	3.3E-05	8.0E-05	9.4E-10	1.3E+00	1.2E-09
Dieldrin	0.00447	3.8E-09	5.0E-05	7.7E-05	1.4E-09	1.6E+01	2.2E-08
Volatile Organic Compounds							
Acetone	NA	NA	9.0E-01	NA	NA	NA	NA
Benzene	NA	NA	4.0E-03	NA	NA	1.0E-01	NA
2-Butanone	NA	NA	6.0E-01	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	4.0E-03	NA	NA	1.5E-01	NA
Tetrachloroethylene (PCE)	NA	NA	6.0E-03	NA	NA	5.4E-01	NA
Total xylenes	NA	NA	2.0E-01	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [c] =				1.E-03			4.E-08

Equations

Noncancer

Average Daily Dose (ADD)

$$ADD = (Cs \times IngR \times EF \times ED \times FI \times CF_{kg/mg}) / (AT_{nc} \times BW)$$

Hazard Quotient (HQ)

$$HQ = AADD / RfDo$$

Cancer

Lifetime Daily Dose (LDD)

$$LDD = (Cs \times IngR \times EF \times ED \times FI \times CF_{kg/mg}) / (AT_{c} \times BW)$$

Excess Cancer Risk (CR)

$$CR = LADD \times SFo$$

Abbreviations:

kg = kilograms
kg/mg = kilograms per milligram
LeadModel = Evaluated by Adult Lead Model, Table E-24
mg/day = milligrams per day
mg/kg = milligrams per kilogram
mg/kg-d = milligrams per kilogram per day
NA = not applicable

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Body Weight	BW	Table E-3	kg
Conversion Factor	$CF_{kg/mg}$	0.000001	kg/mg
Exposure Duration	ED	Table E-3	year
Exposure Frequency	EF	Table E-3	days/year
Fraction Ingested from Source	FI	1	unitless
Ingestion Rate	IngR	Table E-3	mg/day

Footnotes:

a From Table E-1.
[b] From Table E-6.
[c] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks

Table E-12
Dermal Contact with Soil - School Staff
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Soil [a]	Dermal Absorption Fraction from Soil [b]	Average Daily Dose	Dermal Chronic Reference Dose [c]	Hazard Quotient	Lifetime Daily Dose	Oral Slope Factor [c]	Incremental Cancer Risk
	Cs	ABS_d	ADD	RfDd	HQ	LDD	SFo	CR
	(mg/kg)	(unitless)	(mg/kg-d)	(mg/kg-d)	(unitless)	(mg/kg-d)	$(mg/kg\text{-}d)^{-1}$	(unitless)
Metals								
Lead	35.8	0.01	3.7E-06	LeadModel	NA	1.3E-06	LeadModel	NA
Pesticides								
4,4'-DDE (DDE)	0.012	0.05	6.2E-09	NA	NA	2.2E-09	3.4E-01	7.5E-10
4,4'-DDT (DDT)	0.00932	0.05	4.8E-09	NA	NA	1.7E-09	3.4E-01	5.8E-10
alpha Chlordane	0.00509	0.05	2.6E-09	3.3E-05	8.0E-05	9.4E-10	1.3E+00	1.2E-09
Chlordane	0.03845	0.05	2.0E-08	3.3E-05	6.0E-04	7.1E-09	1.3E+00	9.2E-09
gamma Chlordane	0.003088	0.05	1.6E-09	3.3E-05	4.8E-05	5.7E-10	1.3E+00	7.4E-10
Dieldrin	0.00447	0.05	2.3E-09	5.0E-05	4.6E-05	8.2E-10	1.6E+01	1.3E-08
Volatile Organic Compounds								
Acetone	NA	0.01	NA	9.0E-01	NA	NA	NA	NA
Benzene	NA	0.01	NA	4.0E-03	NA	NA	1.0E-01	NA
2-Butanone	NA	0.01	NA	6.0E-01	NA	NA	NA	NA
Carbon Tetrachloride	NA	0.01	NA	4.0E-03	NA	NA	1.5E-01	NA
Tetrachloroethylene (PCE)	NA	0.01	NA	6.0E-03	NA	NA	5.4E-01	NA
Total xylenes	NA	0.01	NA	2.0E-01	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [d] =					8.E-04			3.E-08

Equations

Noncancer

Average Daily Dose (ADD)

$$ADD = (Cs \times SA \times SAF \times ABS_d \times EF \times ED \times CF_{kg/mg}) / (AT_{nc} \times BW)$$

Hazard Quotient (HQ)

$$HQ = AADD / RfDd$$

Cancer

Lifetime Daily Dose (LDD)

$$LDD = (Cs \times ED \times SA \times SAF \times ABS_d \times EF \times CF_{kg/mg}) / (AT_c \times BW)$$

Excess Cancer Risk (CR)

$$CR = LADD \times SFd$$

Abbreviations:

cm^2 = centimeter squared
kg = kilograms
kg/mg = kilograms per milligram
LeadModel = Evaluated by Adult Lead Model, Table E-24
mg/cm^2-d = milligrams per centimeter squared per day
mg/kg = milligrams per kilogram
mg/kg-d = milligrams per kilogram per day
NA = not applicable

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Body Weight	BW	Table E-3	kg
Conversion Factor	$CF_{kg/mg}$	0.000001	kg/mg
Exposure Duration	ED	Table E-3	year
Exposure Frequency	EF	Table E-3	days/year
Soil-to-Skin Adherence Factor	SAF	Table E-3	mg/cm^2-d
Surface Area	SA	Table E-3	cm^2

Footnotes:

[a] From Table E-1.

[b] United States Environmental Protection Agency (USEPA), 2004, Risk Assessment Guidance for Superfund: Volume I Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment), EPA/540/R/99/005. July.

[c] From Table E-6.

[d] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks.

Table E-13
Inhalation to Fugitive Dust - School Staff
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Soil [a]	Averaged Air Concentration	Inhalation Chronic Reference Concentration [b]	Hazard Quotient	Lifetime Air Concentration	Inhalation Unit Risk Factor [b]	Incremental Cancer Risk
	Cs	AAC	RfC	HQ	LAC	IUR	CR
	(mg/kg)	($\mu g/m^3$)	($\mu g/m^3$)	(unitless)	($\mu g/m^3$)	$(\mu g/m^3)^{-1}$	(unitless)
Metals							
Lead	35.8	1.7E-05	LeadModel	NA	6.0E-06	LeadModel	NA
Pesticides							
4,4'-DDE (DDE)	0.012	5.6E-09	4.0E-05	1.4E-04	2.0E-09	9.7E-05	2.0E-13
4,4'-DDT (DDT)	0.00932	4.4E-09	4.0E-05	1.1E-04	1.6E-09	9.7E-05	1.5E-13
alpha Chlordane	0.00509	2.4E-09	7.0E-01	3.4E-09	8.5E-10	3.4E-04	2.9E-13
Chlordane	0.03845	1.8E-08	7.0E-01	2.6E-08	6.4E-09	3.4E-04	2.2E-12
gamma Chlordane	0.003088	1.4E-09	7.0E-01	2.1E-09	5.2E-10	3.4E-04	1.8E-13
Dieldrin	0.00447	2.1E-09	NA	NA	7.5E-10	4.6E-03	3.4E-12
Volatile Organic Compounds							
Acetone	NA	NA	3.1E+04	NA	NA	NA	NA
Benzene	NA	NA	3.0E+00	NA	NA	2.9E-05	NA
2-Butanone	NA	NA	5.0E+03	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	4.0E+01	NA	NA	4.2E-05	NA
Tetrachloroethylene (PCE)	NA	NA	4.0E+01	NA	NA	5.9E-06	NA
Total xylenes	NA	NA	7.0E+02	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [c] =				3.E-04			6.E-12

Equations

Noncancer

Annual Air Concentration (AAC)

$$AAC = ((Cs/PEF) \times ET \times EF \times ED \times CF_{\mu g/mg}) / (AT_{nc} \times CF_{hr/d})$$

Hazard Quotient (HQ)

$$HQ = AAC / RfC$$

Cancer

Lifetime Air Concentration (LAC)

$$LAC = ((Cs/PEF) \times ET \times EF \times ED \times CF_{\mu g/mg}) / (AT_{c} \times CF_{hr/d})$$

Excess Cancer Risk (CR)

$$CR = LAC \times IUR$$

Abbreviations:

kg = kilograms

LeadModel = Evaluated by Adult Lead Model, Table E-24

m^3/kg = cubic meter per kilogram

mg/kg = milligrams per kilogram

NA = not applicable

$\mu g/m^3$ = micrograms per cubic meter

µg/mg = micrograms per milligrams

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Conversion Factor	$CF_{hr/d}$	24	hours/day
Conversion Factor	$CF_{\mu g/mg}$	1000	µg/mg
Exposure Duration	ED	Table E-3	year
Exposure Frequency	EF	Table E-3	days/year
Exposure Time	ET	Table E-3	hours/day
Particulate Emission Factor	PEF	Table E-3	m^3/kg

Footnotes:

[a] From Table E-1.

[b] From Table E-6.

[c] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks.

Table E-14
Incidental Ingestion of Soil - Construction Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Soil [a]	Average Daily Dose	Oral Chronic Reference Dose [b]	Hazard Quotient	Lifetime Daily Dose	Oral Slope Factor [b]	Incremental Cancer Risk
	Cs	ADD	RfDo	HQ	LDD	SFo	CR
	(mg/kg)	(mg/kg-d)	(mg/kg-d)	(unitless)	(mg/kg-d)	$(mg/kg\text{-}d)^{-1}$	(unitless)
Metals							
Lead	35.8	NA	LeadModel	NA	NA	LeadModel	NA
Pesticides							
4,4'-DDE (DDE)	0.012	3.4E-08	NA	NA	4.8E-10	3.4E-01	1.6E-10
4,4'-DDT (DDT)	0.00932	2.6E-08	5.0E-04	5.3E-05	3.8E-10	3.4E-01	1.3E-10
alpha Chlordane	0.00509	1.4E-08	3.3E-05	4.4E-04	2.1E-10	1.3E+00	2.7E-10
Chlordane	0.03845	1.1E-07	3.3E-05	3.3E-03	1.6E-09	1.3E+00	2.0E-09
gamma Chlordane	0.003088	8.7E-09	3.3E-05	2.6E-04	1.2E-10	1.3E+00	1.6E-10
Dieldrin	0.00447	1.3E-08	5.0E-05	2.5E-04	1.8E-10	1.6E+01	2.9E-09
Volatile Organic Compounds							
Acetone	NA	NA	9.0E-01	NA	NA	NA	NA
Benzene	NA	NA	4.0E-03	NA	NA	1.0E-01	NA
2-Butanone	NA	NA	6.0E-01	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	4.0E-03	NA	NA	1.5E-01	NA
Tetrachloroethylene (PCE)	NA	NA	6.0E-03	NA	NA	5.4E-01	NA
Total xylenes	NA	NA	2.0E-01	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [c] =				4.E-03			6.E-09

Equations

Noncancer

Average Daily Dose (ADD)

$$ADD = (Cs \times IngR \times EF \times ED \times FI \times CF_{kg/mg}) / (AT_{nc} \times BW)$$

Hazard Quotient (HQ)

$$HQ = AADD / RfDo$$

Cancer

Lifetime Daily Dose (LDD)

$$LDD = (Cs \times IngR \times EF \times ED \times FI \times CF_{kg/mg}) / (AT_{c} \times BW)$$

Excess Cancer Risk (CR)

$$CR = LADD \times SFo$$

Abbreviations:

kg = kilograms
kg/mg = kilograms per milligram
LeadModel = Evaluated by Adult Lead Model, Table E-25
mg/day = milligrams per day
mg/kg = milligrams per kilogram
mg/kg-d = milligrams per kilogram per day
NA = not applicable

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Body Weight	BW	Table E-3	kg
Conversion Factor	$CF_{kg/mg}$	0.000001	kg/mg
Exposure Duration	ED	Table E-3	year
Exposure Frequency	EF	Table E-3	days/year
Fraction Ingested from Source	FI	1	unitless
Ingestion Rate	IngR	Table E-3	mg/day

Footnotes:

a From Table E-1.
[b] From Table E-6.
[c] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks

Table E-15
Dermal Contact with Soil - Construction Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Soil [a]	Dermal Absorption Fraction from Soil [b]	Average Daily Dose	Dermal Chronic Reference Dose [c]	Hazard Quotient	Lifetime Daily Dose	Oral Slope Factor [c]	Incremental Cancer Risk
	Cs	ABS_d	ADD	RfDd	HQ	LDD	SFo	CR
	(mg/kg)	(unitless)	(mg/kg-d)	(mg/kg-d)	(unitless)	(mg/kg-d)	$(mg/kg\text{-}d)^{-1}$	(unitless)
Metals								
Lead	35.8	0.01	1.5E-05	LeadModel	NA	2.1E-07	LeadModel	NA
Pesticides								
4,4'-DDE (DDE)	0.012	0.05	2.5E-08	NA	NA	3.5E-10	3.4E-01	1.2E-10
4,4'-DDT (DDT)	0.00932	0.05	1.9E-08	NA	NA	2.8E-10	3.4E-01	9.4E-11
alpha Chlordane	0.00509	0.05	1.1E-08	3.3E-05	3.2E-04	1.5E-10	1.3E+00	2.0E-10
Chlordane	0.03845	0.05	7.9E-08	3.3E-05	2.4E-03	1.1E-09	1.3E+00	1.5E-09
gamma Chlordane	0.003088	0.05	6.4E-09	3.3E-05	1.9E-04	9.1E-11	1.3E+00	1.2E-10
Dieldrin	0.00447	0.05	9.2E-09	5.0E-05	1.8E-04	1.3E-10	1.6E+01	2.1E-09
Volatile Organic Compounds								
Acetone	NA	0.01	NA	9.0E-01	NA	NA	NA	NA
Benzene	NA	0.01	NA	4.0E-03	NA	NA	1.0E-01	NA
2-Butanone	NA	0.01	NA	6.0E-01	NA	NA	NA	NA
Carbon Tetrachloride	NA	0.01	NA	4.0E-03	NA	NA	1.5E-01	NA
Tetrachloroethylene (PCE)	NA	0.01	NA	6.0E-03	NA	NA	5.4E-01	NA
Total xylenes	NA	0.01	NA	2.0E-01	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [d] =					3.E-03			4.E-09

Equations

Noncancer

Average Daily Dose (ADD)

$$ADD = (Cs \times SA \times SAF \times ABS_d \times EF \times ED \times CF_{kg/mg}) / (AT_{nc} \times BW)$$

Hazard Quotient (HQ)

$$HQ = AADD / RfDd$$

Cancer

Lifetime Daily Dose (LDD)

$$LDD = (Cs \times ED \times SA \times SAF \times ABS_d \times EF \times CF_{kg/mg}) / (AT_c \times BW)$$

Excess Cancer Risk (CR)

$$CR = LADD \times SFd$$

Abbreviations:

cm^2 = centimeter squared
kg = kilograms
kg/mg = kilograms per milligram
LeadModel = Evaluated by Adult Lead Model, Table E-28
mg/cm^2-d = milligrams per centimeter squared per day
mg/kg = milligrams per kilogram
mg/kg-d = milligrams per kilogram per day
NA = not applicable

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-4	days
Averaging Time - Noncancer	AT_{nc}	Table E-4	days
Body Weight	BW	Table E-4	kg
Conversion Factor	$CF_{kg/mg}$	0.000001	kg/mg
Exposure Duration	ED	Table E-4	year
Exposure Frequency	EF	Table E-4	days/year
Soil-to-Skin Adherence Factor	SAF	Table E-4	mg/cm^2-d
Surface Area	SA	Table E-4	cm^2

Footnotes:

[a] From Table E-1.

[b] United States Environmental Protection Agency (USEPA), 2004, Risk Assessment Guidance for Superfund: Volume I Human Health Evaluation Manual (Part E, Supplemental Guidance for Dermal Risk Assessment), EPA/540/R/99/005. July.

[c] From Table E-6.

[d] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks.

Table E-16
Inhalation to Fugitive Dust - Construction Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Exposure Point Concentration Soil [a]	Averaged Air Concentration	Inhalation Chronic Reference Concentration [b]	Hazard Quotient	Lifetime Air Concentration	Inhalation Unit Risk Factor [b]	Incremental Cancer Risk
	Cs	AAC	RfC	HQ	LAC	IUR	CR
	(mg/kg)	($\mu g/m^3$)	($\mu g/m^3$)	(unitless)	($\mu g/m^3$)	$(\mu g/m^3)^{-1}$	(unitless)
Metals							
Lead	35.8	1.7E-05	LeadModel	NA	2.4E-07	LeadModel	NA
Pesticides							
4,4'-DDE (DDE)	0.012	5.6E-09	4.0E-05	1.4E-04	8.0E-11	9.7E-05	7.8E-15
4,4'-DDT (DDT)	0.00932	4.4E-09	4.0E-05	1.1E-04	6.3E-11	9.7E-05	6.1E-15
alpha Chlordane	0.00509	2.4E-09	7.0E-01	3.4E-09	3.4E-11	3.4E-04	1.2E-14
Chlordane	0.03845	1.8E-08	7.0E-01	2.6E-08	2.6E-10	3.4E-04	8.8E-14
gamma Chlordane	0.003088	1.4E-09	7.0E-01	2.1E-09	2.1E-11	3.4E-04	7.0E-15
Dieldrin	0.00447	2.1E-09	NA	NA	3.0E-11	4.6E-03	1.4E-13
Volatile Organic Compounds							
Acetone	NA	NA	3.1E+04	NA	NA	NA	NA
Benzene	NA	NA	3.0E+00	NA	NA	2.9E-05	NA
2-Butanone	NA	NA	5.0E+03	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	4.0E+01	NA	NA	4.2E-05	NA
Tetrachloroethylene (PCE)	NA	NA	4.0E+01	NA	NA	5.9E-06	NA
Total xylenes	NA	NA	7.0E+02	NA	NA	NA	NA
Total Noncancer Hazard Index / Lifetime Cancer Risk [c] =				3.E-04			3.E-13

Equations

Noncancer

Averaged Air Concentration (AAC)

$$AAC = ((Cs/PEF) \times ET \times EF \times ED \times CF_{\mu g/mg}) / (AT_{nc} \times CF_{hr/d})$$

Hazard Quotient (HQ)

$$HQ = AAC / RfC$$

Cancer

Lifetime Air Concentration (LAC)

$$LAC = ((Cs/PEF) \times ET \times EF \times ED \times CF_{\mu g/mg}) / (AT_{c} \times CF_{hr/d})$$

Excess Cancer Risk (CR)

$$CR = LAC \times IUR$$

Abbreviations:

kg = kilograms

LeadModel = Evaluated by Adult Lead Model, Table E-25

m^3/kg = cubic meter per kilogram

mg/kg = milligrams per kilogram

NA = not applicable

$\mu g/m^3$ = micrograms per cubic meter

$\mu g/mg$ = micrograms per milligrams

Parameter	Symbol	Value	Units
Averaging Time - Cancer	AT_c	Table E-3	days
Averaging Time - Noncancer	AT_{nc}	Table E-3	days
Conversion Factor	$CF_{hr/d}$	24	hours/day
Conversion Factor	$CF_{\mu g/mg}$	1000	$\mu g/mg$
Exposure Duration	ED	Table E-3	year
Exposure Frequency	EF	Table E-3	days/year
Exposure Time	ET	Table E-3	hours/day
Particulate Emission Factor	PEF	Table E-3	m^3/kg

Footnotes:

[a] From Table E-1.

[b] From Table E-6.

[c] The total noncancer hazard index is the sum of the chemical-specific noncancer hazard and and the total lifetime cancer risk is the sum of the cancer risks.

Table E-17
Summary of Noncancer Hazards for Residential Receptors
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Incidental Ingestion of Soil	Dermal Contact with Soil	Inhalation to Fugitive Dust	Inhalation of Indoor Air	Cumulative Hazard Index
Metals					
Lead	NA	NA	NA	NA	NA
Pesticides					
4,4'-DDE (DDE)	NA	NA	6.E-04	NA	6.E-04
4,4'-DDT (DDT)	2.E-04	NA	5.E-04	NA	7.E-04
alpha Chlordane	2.E-03	3.E-04	1.E-08	NA	2.E-03
Chlordane	1.E-02	2.E-03	1.E-07	NA	2.E-02
gamma Chlordane	1.E-03	2.E-04	9.E-09	NA	1.E-03
Dieldrin	1.E-03	2.E-04	NA	NA	1.E-03
Volatile Organic Compounds					
Acetone	NA	NA	NA	9.E-06	9.E-06
Benzene	NA	NA	NA	3.E-04	3.E-04
2-Butanone	NA	NA	NA	1.E-05	1.E-05
Carbon Tetrachloride	NA	NA	NA	4.E-04	4.E-04
Tetrachloroethylene (PCE)	NA	NA	NA	1.E-03	1.E-03
Total xylenes	NA	NA	NA	7.E-05	7.E-05
Total Noncancer Hazard Index[1]	2.E-02	3.E-03	1.E-03	2.E-03	3.E-02

Abbreviations:
NA = not analyzed
[1] - Cumulative Hazard Index based on the sum of all exposure pathways.

Table E-18
Summary of Cancer Risks for Residential Receptors
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Incidential Ingestion of Soil	Dermal Contact with Soil	Inhalation of Fugitive Dust	Inhalation of Indoor Air	Cumulative Cancer Risk
Metals					
Lead	NA	NA	NA	NA	NA
Pesticides					
4,4'-DDE (DDE)	6.E-09	9.E-10	9.E-13	NA	7.E-09
4,4'-DDT (DDT)	5.E-09	7.E-10	7.E-13	NA	5.E-09
alpha Chlordane	1.E-08	2.E-09	1.E-12	NA	1.E-08
Chlordane	7.E-08	1.E-08	1.E-11	NA	8.E-08
gamma Chlordane	6.E-09	9.E-10	8.E-13	NA	7.E-09
Dieldrin	1.E-07	2.E-08	2.E-11	NA	1.E-07
Volatile Organic Compounds					
Acetone	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	1.E-08	1.E-08
2-Butanone	NA	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	2.E-07	2.E-07
Tetrachloroethylene (PCE)	NA	NA	NA	1.E-07	1.E-07
Total xylenes	NA	NA	NA	NA	NA
Total Cancer Risk [1]	2.E-07	3.E-08	3.E-11	4.E-07	6.E-07

Abbreviations:
NA = not analyzed
[1] - Cumulative cancer risk based on the sum of all exposure pathways.

Table E-19
Summary of Noncancer Hazards for Occupational Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Incidental Ingestion of Soil	Dermal Contact with Soil	Inhalation of Fugitive Dust	Cumulative Hazard Index
Metals				
Lead	NA	NA	NA	NA
Pesticides				
4,4'-DDE (DDE)	NA	NA	1.E-04	1.E-04
4,4'-DDT (DDT)	2.E-05	NA	1.E-04	1.E-04
alpha Chlordane	1.E-04	8.E-05	3.E-09	2.E-04
Chlordane	1.E-03	6.E-04	3.E-08	2.E-03
gamma Chlordane	8.E-05	5.E-05	2.E-09	1.E-04
Dieldrin	8.E-05	5.E-05	NA	1.E-04
Volatile Organic Compounds				
Acetone	NA	NA	NA	NA
Benzene	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA
Tetrachloroethylene (PCE)	NA	NA	NA	NA
Total xylenes	NA	NA	NA	NA
Total Noncancer Hazard Index[1]	1.E-03	8.E-04	3.E-04	2.E-03

Abbreviations:
NA = not analyzed
[1] - Cumulative Hazard Index based on the sum of all exposure pathways.

Table E-20
Summary of Cancer Risks for Occupational Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Incidental Ingestion of Soil	Dermal Contact with Soil	Inhalation of Fugitive Dust	Cumulative Cancer Risk
Metals				
Lead	NA	NA	NA	NA
Pesticides				
4,4'-DDE (DDE)	1.E-09	8.E-10	2.E-13	2.E-09
4,4'-DDT (DDT)	1.E-09	6.E-10	2.E-13	2.E-09
alpha Chlordane	2.E-09	1.E-09	3.E-13	3.E-09
Chlordane	2.E-08	9.E-09	2.E-12	2.E-08
gamma Chlordane	1.E-09	7.E-10	2.E-13	2.E-09
Dieldrin	2.E-08	1.E-08	3.E-12	4.E-08
Volatile Organic Compounds				
Acetone	NA	NA	NA	NA
Benzene	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA
Tetrachloroethylene (PCE)	NA	NA	NA	NA
Total xylenes	NA	NA	NA	NA
Total Cancer Risk [1]	4.E-08	3.E-08	6.E-12	7.E-08

Abbreviations:
NA = not analyzed
[1] - Cumulative cancer risk based on the sum of all exposure pathways.

Table E-21
Summary of Noncancer Hazards for Construction Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Incidental Ingestion of Soil	Dermal Contact with Soil	Inhalation of Fugitive Dust	Cumulative Hazard Index
Metals				
Lead	NA	NA	NA	NA
Pesticides				
4,4'-DDE (DDE)	NA	NA	1.E-04	1.E-04
4,4'-DDT (DDT)	5.E-05	NA	1.E-04	2.E-04
alpha Chlordane	4.E-04	3.E-04	3.E-09	8.E-04
Chlordane	3.E-03	2.E-03	3.E-08	6.E-03
gamma Chlordane	3.E-04	2.E-04	2.E-09	5.E-04
Dieldrin	3.E-04	2.E-04	NA	4.E-04
Volatile Organic Compounds				
Acetone	NA	NA	NA	NA
Benzene	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA
Tetrachloroethylene (PCE)	NA	NA	NA	NA
Total xylenes	NA	NA	NA	NA
Total Noncancer Hazard Index[1]	4.E-03	3.E-03	3.E-04	8.E-03

Abbreviations:
NA = not analyzed
[1] - Cumulative Hazard Index based on the sum of all exposure pathways.

Table E-22
Summary of Cancer Risks for Construction Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Constituents	Incidental Ingestion of Soil	Dermal Contact with Soil	Inhalation of Fugitive Dust	Cumulative Cancer Risk
Metals				
Lead	NA	NA	NA	NA
Pesticides				
4,4'-DDE (DDE)	2.E-10	1.E-10	8.E-15	3.E-10
4,4'-DDT (DDT)	1.E-10	9.E-11	6.E-15	2.E-10
alpha Chlordane	3.E-10	2.E-10	1.E-14	5.E-10
Chlordane	2.E-09	1.E-09	9.E-14	3.E-09
gamma Chlordane	2.E-10	1.E-10	7.E-15	3.E-10
Dieldrin	3.E-09	2.E-09	1.E-13	5.E-09
Volatile Organic Compounds				
Acetone	NA	NA	NA	NA
Benzene	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA
Tetrachloroethylene (PCE)	NA	NA	NA	NA
Total xylenes	NA	NA	NA	NA
Total Cancer Risk [1]	6.E-09	4.E-09	3.E-13	1.E-08

Abbreviations:
NA = not analyzed
[1] - Cumulative cancer risk based on the sum of all exposure pathways.

Table E-23
Lead Evaluation - Residential Receptor
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

LEAD RISK ASSESSMENT SPREADSHEET 8
CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

Click here for ABBREVIATED INSTRUCTIONS FOR LEADSPREAD 8

INPUT	
MEDIUM	LEVEL
Lead in Soil/Dust (ug/g)	36
Respirable Dust (ug/m^3)	7.36212E-05

OUTPUT						
Percentile Estimate of Blood Pb (ug/dl)						PRG-90
	50th	90th	95th	98th	99th	(ug/g)
BLOOD Pb, CHILD	0.254	0.46	0.55	0.67	0.76	77
BLOOD Pb, PICA CHILD	0.51	0.92	1.09	1.33	1.51	39

EXPOSURE PARAMETERS		
	units	children
Days per week	days/wk	7
Geometric Standard Deviation		1.6
Blood lead level of concern (ug/dl)		1
Skin area, residential	cm^2	2900
Soil adherence	ug/cm^2	200
Dermal uptake constant	(ug/dl)/(ug/day)	0.0001
Soil ingestion	mg/day	100
Soil ingestion, pica	mg/day	200
Ingestion constant	(ug/dl)/(ug/day)	0.16
Bioavailability	unitless	0.44
Breathing rate	m^3/day	6.8
Inhalation constant	(ug/dl)/(ug/day)	0.192

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PATHWAYS						
CHILDREN	typical			with pica		
	Pathway contribution			Pathway contribution		
Pathway	PEF	ug/dl	percent	PEF	ug/dl	percent
Soil Contact	5.8E-5	0.00	1%		0.00	0%
Soil Ingestion	7.0E-3	0.25	99%	1.4E-2	0.50	100%
Inhalation	9.6E-11	0.00	0%		0.00	0%

Table E-24
Lead Evaluation - Occupational Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

MODIFIED VERSION OF USEPA ADULT LEAD MODEL

CALCULATIONS OF BLOOD LEAD CONCENTRATIONS (PbBs) AND PRELMIINARY REMEDIATION GOAL (PRG)

EDIT RED CELL

Variable	Description of Variable	Units	
PbS	Soil lead concentration	ug/g or ppm	36
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4
GSD_i	Geometric standard deviation PbB	--	1.8
PbB_0	Baseline PbB	ug/dL	0.0
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050
$AF_{S,D}$	Absorption fraction (same for soil and dust)	--	0.12
$EF_{S,D}$	Exposure frequency (same for soil and dust)	days/yr	250
$AT_{S,D}$	Averaging time (same for soil and dust)	days/yr	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**0.06**
$PbB_{fetal,\ 0.90}$	90th percentile PbB among fetuses of adult workers	ug/dL	0.1
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**1.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.0%**

PRG90 **318**

Click here for REFERENCES

Table E-25
Lead Evaluation - Construction Worker
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

MODIFIED VERSION OF USEPA ADULT LEAD MODEL

CALCULATIONS OF BLOOD LEAD CONCENTRATIONS (PbBs) AND PRELMIINARY REMEDIATION GOAL (PRG)

EDIT RED CELL

Variable	Description of Variable	Units	
PbS	Soil lead concentration	ug/g or ppm	36
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4
GSD_i	Geometric standard deviation PbB	--	1.8
PbB_0	Baseline PbB	ug/dL	0.0
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050
$AF_{S, D}$	Absorption fraction (same for soil and dust)	--	0.12
$EF_{S, D}$	Exposure frequency (same for soil and dust)	days/yr	250
$AT_{S, D}$	Averaging time (same for soil and dust)	days/yr	365
PbB_{adult}	**PbB of adult worker, geometric mean**	**ug/dL**	**0.06**
$PbB_{fetal, 0.90}$	90th percentile PbB among fetuses of adult workers	ug/dL	0.1
PbB_t	Target PbB level of concern (e.g., 10 ug/dL)	ug/dL	**1.0**
$P(PbB_{fetal} > PbB_t)$	**Probability that fetal PbB > PbB_t, assuming lognormal distribution**	**%**	**0.0%**

PRG90 **318**

Click here for REFERENCES

Table E-26
Summary of Noncancer Hazard Indices, Cancer Risks, and Blood Lead Levels
Screening Human Health Risk Assessment
James A. Foshay Learning Center
Los Angeles, California

Receptor	Noncancer Hazard Index	Cancer Risk	Blood Lead Level (ug/dL)
Cumulative Hazard Index and Cancer Risk [1]			
Residential	0.025	6.E-07	0.46
Occupational Worker[2]	0.002	7.E-08	0.11
Construction Worker[2]	0.008	1.E-08	0.11

Notes:

[1] - Cumulative hazard index and cancer risk based on the sum of all exposure pathways and all COPCs.

[2] - BLL Represents Fetal BLL of Pregnant Workers

APPENDIX F

SUMMARY OF STATISTICAL ANALYSIS CALCULATIONS

UCL Statistics for Data Sets with Non-Detects

User Selected Options	Post-Excavation site data with the higher of the original or duplicate sample used in the statistical analysis
Date/Time of Computation	3/9/2016 4:57:01 PM
From File	LAUSD Foshay ProUCL Input_Post Excavation.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Arsenic (mg/kg) - Excludes Original Samples from B3 Excavation Area (B3 at 0.5 and 1.0 fbg)

General Statistics

Total Number of Observations	78	Number of Distinct Observations	73
		Number of Missing Observations	0
Minimum	1.27	Mean	3.595
Maximum	18.4	Median	2.51
SD	3.375	Std. Error of Mean	0.382
Coefficient of Variation	0.939	Skewness	3.069

Normal GOF Test

Shapiro Wilk Test Statistic	0.572	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.282	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.1	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	4.231	95% Adjusted-CLT UCL (Chen-1995)	4.366
		95% Modified-t UCL (Johnson-1978)	4.253

Gamma GOF Test

A-D Test Statistic	6.296	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.761	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.211	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.102	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	2.42	k star (bias corrected MLE)	2.335
Theta hat (MLE)	1.486	Theta star (bias corrected MLE)	1.54
nu hat (MLE)	377.4	nu star (bias corrected)	364.3
MLE Mean (bias corrected)	3.595	MLE Sd (bias corrected)	2.353
		Approximate Chi Square Value (0.05)	321
Adjusted Level of Significance	0.0469	Adjusted Chi Square Value	320.3

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	4.079	95% Adjusted Gamma UCL (use when n<50)	4.089

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.844	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	2.668E-11	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.174	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.1	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.239	Mean of logged Data	1.059
Maximum of Logged Data	2.912	SD of logged Data	0.577

Assuming Lognormal Distribution

95% H-UCL	3.86	90% Chebyshev (MVUE) UCL	4.11
95% Chebyshev (MVUE) UCL	4.433	97.5% Chebyshev (MVUE) UCL	4.881
99% Chebyshev (MVUE) UCL	5.762		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	4.224	95% Jackknife UCL	4.231
95% Standard Bootstrap UCL	4.245	95% Bootstrap-t UCL	4.483
95% Hall's Bootstrap UCL	4.316	95% Percentile Bootstrap UCL	4.234
95% BCA Bootstrap UCL	4.357		
90% Chebyshev(Mean, Sd) UCL	4.741	95% Chebyshev(Mean, Sd) UCL	5.261
97.5% Chebyshev(Mean, Sd) UCL	5.981	99% Chebyshev(Mean, Sd) UCL	7.397

Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL	5.261

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

Lead (mg/kg) - Excludes Original Samples from BD14 and BD15 Excavation Areas

General Statistics

Total Number of Observations	48	Number of Distinct Observations	39
		Number of Missing Observations	0
Minimum	2.1	Mean	21.04
Maximum	100	Median	9.9
SD	23.45	Std. Error of Mean	3.384
Coefficient of Variation	1.114	Skewness	1.611

Normal GOF Test

Shapiro Wilk Test Statistic	0.757	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.947	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.243	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.128	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	26.72	95% Adjusted-CLT UCL (Chen-1995)	27.45
		95% Modified-t UCL (Johnson-1978)	26.85

Gamma GOF Test

A-D Test Statistic	1.935	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.778	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.162	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.132	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.035	k star (bias corrected MLE)	0.985
Theta hat (MLE)	20.32	Theta star (bias corrected MLE)	21.37
nu hat (MLE)	99.41	nu star (bias corrected)	94.53
MLE Mean (bias corrected)	21.04	MLE Sd (bias corrected)	21.21
		Approximate Chi Square Value (0.05)	73.1
Adjusted Level of Significance	0.045	Adjusted Chi Square Value	72.52

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	27.21	95% Adjusted Gamma UCL (use when n<50)	27.43

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.926	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk Critical Value	0.947	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.118	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.128	Data appear Lognormal at 5% Significance Level

Data appear Approximate Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.742	Mean of logged Data	2.491
Maximum of Logged Data	4.605	SD of logged Data	1.058

Assuming Lognormal Distribution

95% H-UCL	30.6	90% Chebyshev (MVUE) UCL	32.1
95% Chebyshev (MVUE) UCL	37.24	97.5% Chebyshev (MVUE) UCL	44.36
99% Chebyshev (MVUE) UCL	58.36		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Distribution Free UCLs

95% CLT UCL	26.61	95% Jackknife UCL	26.72
95% Standard Bootstrap UCL	26.63	95% Bootstrap-t UCL	27.74
95% Hall's Bootstrap UCL	27.72	95% Percentile Bootstrap UCL	26.53
95% BCA Bootstrap UCL	28.19		
90% Chebyshev(Mean, Sd) UCL	31.2	95% Chebyshev(Mean, Sd) UCL	35.8
97.5% Chebyshev(Mean, Sd) UCL	42.18	99% Chebyshev(Mean, Sd) UCL	54.72

Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL	35.8

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

4,4'-DDE (ug/kg)

General Statistics

Total Number of Observations	20	Number of Distinct Observations	7
Number of Detects	6	Number of Non-Detects	14
Number of Distinct Detects	6	Number of Distinct Non-Detects	1
Minimum Detect	2.3	Minimum Non-Detect	2
Maximum Detect	62	Maximum Non-Detect	2
Variance Detects	510.1	Percent Non-Detects	70%
Mean Detects	16.77	SD Detects	22.59
Median Detects	10.25	CV Detects	1.347
Skewness Detects	2.244	Kurtosis Detects	5.242
Mean of Logged Detects	2.201	SD of Logged Detects	1.194

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.672	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.788	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.4	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.362	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	6.43	Standard Error of Mean	3.225
SD	13.17	95% KM (BCA) UCL	11.95
95% KM (t) UCL	12.01	95% KM (Percentile Bootstrap) UCL	12.2
95% KM (z) UCL	11.73	95% KM Bootstrap t UCL	22.37
90% KM Chebyshev UCL	16.1	95% KM Chebyshev UCL	20.49
97.5% KM Chebyshev UCL	26.57	99% KM Chebyshev UCL	38.52

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.481	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.717	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.287	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.341	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.94	k star (bias corrected MLE)	0.581
Theta hat (MLE)	17.84	Theta star (bias corrected MLE)	28.86
nu hat (MLE)	11.28	nu star (bias corrected)	6.972
MLE Mean (bias corrected)	16.77	MLE Sd (bias corrected)	22

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.239	nu hat (KM)	9.542
Approximate Chi Square Value (9.54, α)	3.657	Adjusted Chi Square Value (9.54, β)	3.374
95% Gamma Approximate KM-UCL (use when n>=50)	16.78	95% Gamma Adjusted KM-UCL (use when n<50)	18.18

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	5.037
Maximum	62	Median	0.01
SD	14.01	CV	2.782
k hat (MLE)	0.179	k star (bias corrected MLE)	0.186
Theta hat (MLE)	28.13	Theta star (bias corrected MLE)	27.15
nu hat (MLE)	7.163	nu star (bias corrected)	7.422
MLE Mean (bias corrected)	5.037	MLE Sd (bias corrected)	11.69
		Adjusted Level of Significance (β)	0.038
Approximate Chi Square Value (7.42, α)	2.405	Adjusted Chi Square Value (7.42, β)	2.185
95% Gamma Approximate UCL (use when n>=50)	15.54	95% Gamma Adjusted UCL (use when n<50)	17.11

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.921	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.788	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.213	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.362	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	5.219	Mean in Log Scale	-1.002
SD in Original Scale	13.95	SD in Log Scale	2.692
95% t UCL (assumes normality of ROS data)	10.61	95% Percentile Bootstrap UCL	10.97
95% BCA Bootstrap UCL	13.99	95% Bootstrap t UCL	23.79
95% H-UCL (Log ROS)	431.1		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	1.145	95% H-UCL (KM -Log)	8.068
KM SD (logged)	0.913	95% Critical H Value (KM-Log)	2.51
KM Standard Error of Mean (logged)	0.224		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	5.73	Mean in Log Scale	0.66
SD in Original Scale	13.75	SD in Log Scale	1.202
95% t UCL (Assumes normality)	11.05	95% H-Stat UCL	8.969

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Gamma Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	12.01	95% GROS Adjusted Gamma UCL	17.11
95% Adjusted Gamma KM-UCL	18.18		

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

4,4'-DDT (ug/kg)

General Statistics

Total Number of Observations	20	Number of Distinct Observations	6
Number of Detects	5	Number of Non-Detects	15
Number of Distinct Detects	5	Number of Distinct Non-Detects	1
Minimum Detect	2.4	Minimum Non-Detect	2
Maximum Detect	33	Maximum Non-Detect	2
Variance Detects	159	Percent Non-Detects	75%
Mean Detects	16.62	SD Detects	12.61
Median Detects	19	CV Detects	0.759
Skewness Detects	0.102	Kurtosis Detects	-1.635
Mean of Logged Detects	2.438	SD of Logged Detects	1.094

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.944	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.762	Detected Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.207	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.396	Detected Data appear Normal at 5% Significance Level

Detected Data appear Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	5.655	Standard Error of Mean	2.12
SD	8.478	95% KM (BCA) UCL	9.27
95% KM (t) UCL	9.32	95% KM (Percentile Bootstrap) UCL	8.79
95% KM (z) UCL	9.141	95% KM Bootstrap t UCL	9.59
90% KM Chebyshev UCL	12.01	95% KM Chebyshev UCL	14.89
97.5% KM Chebyshev UCL	18.89	99% KM Chebyshev UCL	26.74

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.333	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.687	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.27	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.362	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.488	k star (bias corrected MLE)	0.729
Theta hat (MLE)	11.17	Theta star (bias corrected MLE)	22.81
nu hat (MLE)	14.88	nu star (bias corrected)	7.287
MLE Mean (bias corrected)	16.62	MLE Sd (bias corrected)	19.47

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.445	nu hat (KM)	17.79
Approximate Chi Square Value (17.79, α)	9.243	Adjusted Chi Square Value (17.79, β)	8.758
95% Gamma Approximate KM-UCL (use when n>=50)	10.89	95% Gamma Adjusted KM-UCL (use when n<50)	11.49

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	4.163
Maximum	33	Median	0.01
SD	9.377	CV	2.253
k hat (MLE)	0.176	k star (bias corrected MLE)	0.183

Theta hat (MLE)	23.68	Theta star (bias corrected MLE)	22.78
nu hat (MLE)	7.031	nu star (bias corrected)	7.31
MLE Mean (bias corrected)	4.163	MLE Sd (bias corrected)	9.737
		Adjusted Level of Significance (β)	0.038
Approximate Chi Square Value (7.31, α)	2.342	Adjusted Chi Square Value (7.31, β)	2.126
95% Gamma Approximate UCL (use when n>=50)	12.99	95% Gamma Adjusted UCL (use when n<50)	14.31

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.902	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.762	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.278	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.396	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	4.462	Mean in Log Scale	-0.856
SD in Original Scale	9.25	SD in Log Scale	2.532
95% t UCL (assumes normality of ROS data)	8.038	95% Percentile Bootstrap UCL	8.065
95% BCA Bootstrap UCL	9.204	95% Bootstrap t UCL	10.76
95% H-UCL (Log ROS)	225.1		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	1.129	95% H-UCL (KM -Log)	7.766
KM SD (logged)	0.9	95% Critical H Value (KM-Log)	2.493
KM Standard Error of Mean (logged)	0.225		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	4.905	Mean in Log Scale	0.61
SD in Original Scale	9.035	SD in Log Scale	1.194
95% t UCL (Assumes normality)	8.398	95% H-Stat UCL	8.366

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	9.32	95% KM (Percentile Bootstrap) UCL	8.79

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

alpha-Chlordane (ug/kg)

General Statistics

Total Number of Observations	20	Number of Distinct Observations	6
Number of Detects	5	Number of Non-Detects	15
Number of Distinct Detects	5	Number of Distinct Non-Detects	1
Minimum Detect	2	Minimum Non-Detect	1
Maximum Detect	20	Maximum Non-Detect	1
Variance Detects	67.61	Percent Non-Detects	75%
Mean Detects	8.76	SD Detects	8.222
Median Detects	4.4	CV Detects	0.939
Skewness Detects	0.76	Kurtosis Detects	-2.103
Mean of Logged Detects	1.751	SD of Logged Detects	1.052

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.832	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.762	Detected Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.302	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.396	Detected Data appear Normal at 5% Significance Level

Detected Data appear Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	2.94	Standard Error of Mean	1.245
SD	4.981	95% KM (BCA) UCL	4.91
95% KM (t) UCL	5.093	95% KM (Percentile Bootstrap) UCL	4.94
95% KM (z) UCL	4.988	95% KM Bootstrap t UCL	8.104
90% KM Chebyshev UCL	6.676	95% KM Chebyshev UCL	8.368
97.5% KM Chebyshev UCL	10.72	99% KM Chebyshev UCL	15.33

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.45	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.688	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.259	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.363	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.334	k star (bias corrected MLE)	0.667
Theta hat (MLE)	6.565	Theta star (bias corrected MLE)	13.13
nu hat (MLE)	13.34	nu star (bias corrected)	6.67
MLE Mean (bias corrected)	8.76	MLE Sd (bias corrected)	10.73

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.348	nu hat (KM)	13.93
Approximate Chi Square Value (13.93, α)	6.526	Adjusted Chi Square Value (13.93, β)	6.128
95% Gamma Approximate KM-UCL (use when n>=50)	6.277	95% Gamma Adjusted KM-UCL (use when n<50)	6.685

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	2.198
Maximum	20	Median	0.01

SD	5.417	CV	2.465
k hat (MLE)	0.194	k star (bias corrected MLE)	0.199
Theta hat (MLE)	11.31	Theta star (bias corrected MLE)	11.07
nu hat (MLE)	7.774	nu star (bias corrected)	7.941
MLE Mean (bias corrected)	2.198	MLE Sd (bias corrected)	4.932
		Adjusted Level of Significance (β)	0.038
Approximate Chi Square Value (7.94, α)	2.701	Adjusted Chi Square Value (7.94, β)	2.465
95% Gamma Approximate UCL (use when n>=50)	6.461	95% Gamma Adjusted UCL (use when n<50)	7.079

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.88	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.762	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.219	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.396	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	2.336	Mean in Log Scale	-1.614
SD in Original Scale	5.363	SD in Log Scale	2.58
95% t UCL (assumes normality of ROS data)	4.409	95% Percentile Bootstrap UCL	4.472
95% BCA Bootstrap UCL	5.191	95% Bootstrap t UCL	11.96
95% H-UCL (Log ROS)	133.5		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	0.438	95% H-UCL (KM -Log)	3.832
KM SD (logged)	0.892	95% Critical H Value (KM-Log)	2.481
KM Standard Error of Mean (logged)	0.223		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	2.565	Mean in Log Scale	-0.0822
SD in Original Scale	5.263	SD in Log Scale	1.188
95% t UCL (Assumes normality)	4.6	95% H-Stat UCL	4.132

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	5.093	95% KM (Percentile Bootstrap) UCL	4.94

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Chlordane (ug/kg)

General Statistics

Total Number of Observations	20	Number of Distinct Observations	7
Number of Detects	7	Number of Non-Detects	13
Number of Distinct Detects	6	Number of Distinct Non-Detects	1
Minimum Detect	10	Minimum Non-Detect	8.5
Maximum Detect	130	Maximum Non-Detect	8.5
Variance Detects	2972	Percent Non-Detects	65%
Mean Detects	51	SD Detects	54.52
Median Detects	23	CV Detects	1.069
Skewness Detects	1.146	Kurtosis Detects	-0.913
Mean of Logged Detects	3.438	SD of Logged Detects	1.061

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.712	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.803	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.344	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.335	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	23.38	Standard Error of Mean	8.717
SD	36.09	95% KM (BCA) UCL	36.65
95% KM (t) UCL	38.45	95% KM (Percentile Bootstrap) UCL	36.18
95% KM (z) UCL	37.71	95% KM Bootstrap t UCL	87.24
90% KM Chebyshev UCL	49.53	95% KM Chebyshev UCL	61.37
97.5% KM Chebyshev UCL	77.81	99% KM Chebyshev UCL	110.1

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.664	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.726	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.259	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.319	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.15	k star (bias corrected MLE)	0.752
Theta hat (MLE)	44.36	Theta star (bias corrected MLE)	67.8
nu hat (MLE)	16.1	nu star (bias corrected)	10.53
MLE Mean (bias corrected)	51	MLE Sd (bias corrected)	58.8

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.419	nu hat (KM)	16.78
Approximate Chi Square Value (16.78, α)	8.515	Adjusted Chi Square Value (16.78, β)	8.052
95% Gamma Approximate KM-UCL (use when n>=50)	46.06	95% Gamma Adjusted KM-UCL (use when n<50)	48.71

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	17.86
Maximum	130	Median	0.01

SD	39.51	CV	2.213
k hat (MLE)	0.163	k star (bias corrected MLE)	0.172
Theta hat (MLE)	109.8	Theta star (bias corrected MLE)	104.1
nu hat (MLE)	6.502	nu star (bias corrected)	6.86
MLE Mean (bias corrected)	17.86	MLE Sd (bias corrected)	43.12
		Adjusted Level of Significance (β)	0.038
Approximate Chi Square Value (6.86, α)	2.094	Adjusted Chi Square Value (6.86, β)	1.893
95% Gamma Approximate UCL (use when n>=50)	58.5	95% Gamma Adjusted UCL (use when n<50)	64.73

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.866	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.803	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.197	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.335	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	18.85	Mean in Log Scale	1.026
SD in Original Scale	39.07	SD in Log Scale	2.219
95% t UCL (assumes normality of ROS data)	33.95	95% Percentile Bootstrap UCL	34.66
95% BCA Bootstrap UCL	39.74	95% Bootstrap t UCL	72.69
95% H-UCL (Log ROS)	359.2		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	2.594	95% H-UCL (KM -Log)	30.76
KM SD (logged)	0.849	95% Critical H Value (KM-Log)	2.423
KM Standard Error of Mean (logged)	0.205		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	20.61	Mean in Log Scale	2.144
SD in Original Scale	38.23	SD in Log Scale	1.142
95% t UCL (Assumes normality)	35.4	95% H-Stat UCL	34.52

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Gamma Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	38.45	95% GROS Adjusted Gamma UCL	64.73
95% Adjusted Gamma KM-UCL	48.71		

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Dieldrin (ug/kg)

General Statistics

Total Number of Observations	20	Number of Distinct Observations	6
Number of Detects	5	Number of Non-Detects	15
Number of Distinct Detects	5	Number of Distinct Non-Detects	1
Minimum Detect	2.3	Minimum Non-Detect	2
Maximum Detect	12	Maximum Non-Detect	2
Variance Detects	19.14	Percent Non-Detects	75%
Mean Detects	6.9	SD Detects	4.375
Median Detects	5.6	CV Detects	0.634
Skewness Detects	0.329	Kurtosis Detects	-2.785
Mean of Logged Detects	1.744	SD of Logged Detects	0.711

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.885	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.762	Detected Data appear Normal at 5% Significance Level
Lilliefors Test Statistic	0.226	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.396	Detected Data appear Normal at 5% Significance Level

Detected Data appear Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	3.225	Standard Error of Mean	0.722
SD	2.886	95% KM (BCA) UCL	4.4
95% KM (t) UCL	4.473	95% KM (Percentile Bootstrap) UCL	4.41
95% KM (z) UCL	4.412	95% KM Bootstrap t UCL	4.526
90% KM Chebyshev UCL	5.39	95% KM Chebyshev UCL	6.37
97.5% KM Chebyshev UCL	7.731	99% KM Chebyshev UCL	10.4

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.327	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.683	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.251	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.36	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	2.82	k star (bias corrected MLE)	1.261
Theta hat (MLE)	2.447	Theta star (bias corrected MLE)	5.47
nu hat (MLE)	28.2	nu star (bias corrected)	12.61
MLE Mean (bias corrected)	6.9	MLE Sd (bias corrected)	6.143

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	1.249	nu hat (KM)	49.94
Approximate Chi Square Value (49.94, α)	34.72	Adjusted Chi Square Value (49.94, β)	33.71
95% Gamma Approximate KM-UCL (use when n>=50)	4.639	95% Gamma Adjusted KM-UCL (use when n<50)	4.777

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1.733
Maximum	12	Median	0.01

SD	3.66	CV	2.113
k hat (MLE)	0.205	k star (bias corrected MLE)	0.208
Theta hat (MLE)	8.434	Theta star (bias corrected MLE)	8.332
nu hat (MLE)	8.217	nu star (bias corrected)	8.318
MLE Mean (bias corrected)	1.733	MLE Sd (bias corrected)	3.799
		Adjusted Level of Significance (β)	0.038
Approximate Chi Square Value (8.32, α)	2.92	Adjusted Chi Square Value (8.32, β)	2.673
95% Gamma Approximate UCL (use when n>=50)	4.934	95% Gamma Adjusted UCL (use when n<50)	5.391

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.925	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.762	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.221	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.396	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	2.1	Mean in Log Scale	-0.498
SD in Original Scale	3.505	SD in Log Scale	1.72
95% t UCL (assumes normality of ROS data)	3.455	95% Percentile Bootstrap UCL	3.422
95% BCA Bootstrap UCL	3.835	95% Bootstrap t UCL	5.289
95% H-UCL (Log ROS)	11.98		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	0.956	95% H-UCL (KM -Log)	3.951
KM SD (logged)	0.555	95% Critical H Value (KM-Log)	2.074
KM Standard Error of Mean (logged)	0.139		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	2.475	Mean in Log Scale	0.436
SD in Original Scale	3.301	SD in Log Scale	0.841
95% t UCL (Assumes normality)	3.752	95% H-Stat UCL	3.506

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Normal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	4.473	95% KM (Percentile Bootstrap) UCL	4.41

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

gamma-Chlordane

General Statistics

Total Number of Observations	20	Number of Distinct Observations	7
Number of Detects	7	Number of Non-Detects	13
Number of Distinct Detects	7	Number of Distinct Non-Detects	1
Minimum Detect	1	Minimum Non-Detect	1
Maximum Detect	11	Maximum Non-Detect	1
Variance Detects	15.35	Percent Non-Detects	65%
Mean Detects	3.914	SD Detects	3.918
Median Detects	2.2	CV Detects	1.001
Skewness Detects	1.376	Kurtosis Detects	0.422
Mean of Logged Detects	0.975	SD of Logged Detects	0.923

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.757	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.803	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.374	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.335	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	2.02	Standard Error of Mean	0.618
SD	2.557	95% KM (BCA) UCL	3.08
95% KM (t) UCL	3.088	95% KM (Percentile Bootstrap) UCL	3.07
95% KM (z) UCL	3.036	95% KM Bootstrap t UCL	6.609
90% KM Chebyshev UCL	3.873	95% KM Chebyshev UCL	4.712
97.5% KM Chebyshev UCL	5.877	99% KM Chebyshev UCL	8.164

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	0.628	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.722	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.329	**Kolmogrov-Smirnoff GOF**
5% K-S Critical Value	0.317	Detected Data Not Gamma Distributed at 5% Significance Level

Detected data follow Appr. Gamma Distribution at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.426	k star (bias corrected MLE)	0.91
Theta hat (MLE)	2.745	Theta star (bias corrected MLE)	4.301
nu hat (MLE)	19.97	nu star (bias corrected)	12.74
MLE Mean (bias corrected)	3.914	MLE Sd (bias corrected)	4.103

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.624	nu hat (KM)	24.97
Approximate Chi Square Value (24.97, α)	14.59	Adjusted Chi Square Value (24.97, β)	13.96
95% Gamma Approximate KM-UCL (use when n>=50)	3.458	95% Gamma Adjusted KM-UCL (use when n<50)	3.613

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

For such situations, GROS method tends to yield inflated values of UCLs and BTVs

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1.377

Maximum	11	Median	0.01
SD	2.915	CV	2.118
k hat (MLE)	0.241	k star (bias corrected MLE)	0.238
Theta hat (MLE)	5.723	Theta star (bias corrected MLE)	5.789
nu hat (MLE)	9.62	nu star (bias corrected)	9.511
MLE Mean (bias corrected)	1.377	MLE Sd (bias corrected)	2.823
		Adjusted Level of Significance (β)	0.038
Approximate Chi Square Value (9.51, α)	3.638	Adjusted Chi Square Value (9.51, β)	3.356
95% Gamma Approximate UCL (use when n>=50)	3.598	95% Gamma Adjusted UCL (use when n<50)	3.901

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.879	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.803	Detected Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.275	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.335	Detected Data appear Lognormal at 5% Significance Level

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1.487	Mean in Log Scale	-1.139
SD in Original Scale	2.865	SD in Log Scale	1.945
95% t UCL (assumes normality of ROS data)	2.594	95% Percentile Bootstrap UCL	2.664
95% BCA Bootstrap UCL	3.134	95% Bootstrap t UCL	5.132
95% H-UCL (Log ROS)	13.84		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	0.341	95% H-UCL (KM -Log)	2.526
KM SD (logged)	0.687	95% Critical H Value (KM-Log)	2.22
KM Standard Error of Mean (logged)	0.166		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	1.695	Mean in Log Scale	-0.109
SD in Original Scale	2.764	SD in Log Scale	0.967
95% t UCL (Assumes normality)	2.764	95% H-Stat UCL	2.539

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Gamma Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (t) UCL	3.088	95% GROS Adjusted Gamma UCL	3.901
95% Adjusted Gamma KM-UCL	3.613		

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

APPENDIX G

WORK NOTICE AND PUBLIC PARTICIPATION DOCUMENTS

LEE ANDREWS GROUP
DBE/MBE/WBE/SBE Certified

April 8, 2015

John C. Gonzales, P.E.
Senior Project Manager
707 Wilshire Blvd., Suite 3250
Los Angeles, CA 90017

Dear Mr. Gonzalez:

Lee Andrews Group hereby certifies our completed scope of work for the LAUSD Foshay Learning Center Preliminary Endangerment Assessment (PEA) advance notice project located at 3751 S. HARVARD Boulevard, Los Angeles, CA 90018.

The scope of work completed entailed a quarter mile (¼) hand delivery (PEA) notice of line-of-site homes and businesses; hand delivery of approximately eighty (80) (PEA) notices to faculty at Foshay Learning Center; and, a standard post office mailer of (PEA) notices based on an identified Foshay Learning Center list of parents and students.

Scope of Work Timeline:
March 12, 2015 – **Translate (PEA) notice from English to Spanish**
March 16, 2015 – **1,512 standard mail delivery to parents and students**
March 19, 2015 – **80 (PEA) notices to Foshay Learning Center Faculty**
March 19, & 20, 2015 – **170 line-of-site homes and businesses**
March 23, 2015 – **(PEA) notices received via standard mail**

In addition to the certification letter, we have attached two supporting documents certifying United States Postal Service (USPS) mail delivery of (PEA) notifications and a map illustrating the quarter mile line-of-site delivery radius.

Lee Andrews Group is happy to address any questions you may have on the scope of work completed on the project.

Sincerely,

Erik Rodriguez
Public Affairs Specialist

Enclosure:
USPS Postage Statement & Mail Sort Summary Report

818 W. Seventh Street, Suite 880, Los Angeles, CA 90017 | www.leeandrewsgroup.com | 213.891.2965| Fax: 213.891.9016

Foshay Quarter Mile Delivery Map
English to Spanish translation (PEA) Notice
Foshay Learning Center (PEA) advance notice mailed letter

United States Postal Service PAMCo GK #19378 FOSHAY LEARNING CTR

Postage Statement - Standard Mail W/O 16773

Post Office: Note Mail Arrival Date & Time (Do Not Round-Stamp)

RECEIVED PROOF

Mailer

Permit Holder's Name and Address and Email Address, if Any	Telephone	Name and Address of Mailing Agent (If other than permit holder)	Telephone	Name and Address of Mail Owner (If other than permit holder)
PAMCo Aubrey Provost 2711 So. Robertson Bl. Los Angeles, CA 90034-2403 promail@att.net	310-204-1988			LAUSD Eric Rodriguez 333 So Beaudry Ave. 28th FL. Los Angeles, CA 90017-5157 promail@att.net
CAPS Cust. Ref. No. 7696897 CRID 7696897		CRID 19		CRID 7696897

Mailing

Post Office of Mailing	Processing Category	Mailer's Mailing Date	Federal Agency Cost Code	Statement Seq. No.	No. and Type of Containers
los angeles, ca 90052-9998	☒ Letters ☐ Catalogs ☐ Flats ☐ Marketing Parcels ☐ Parcels - Machinable ☐ Parcels - Irregular ☐ CMM	Mar 16 2015		171156	0 Sacks 9 1 ft. Letter Trays 1 2 ft. Letter Trays 0 EMM Letter Trays 0 Flat Trays 0 Pallets 0 Other
Type of Postage: ☒ Permit Imprint ☐ Precanceled Stamps ☐ Metered		SSF Transaction #		Total # of Pieces in Mailing: 1,502	
Permit # 592	For Mail Enclosed within Another Class: ☐ Periodicals ☐ Bound Printed Matter ☐ Library Mail ☐ Media Mail	Weight of a Single Piece: 0.0250 pounds	Combined Mailing: ☐ Mixed Class ☐ Single Class	Total Weight: 37.5500	
		☐ Mailpiece is a product sample.	% Samples		

For Automation Pieces, Enter Date of Address Matching and Coding	For Carrier Route Pieces, Enter Date of Address Matching and Coding	For Carrier Route Price Pieces, Enter Date of Carrier Route Sequencing	For Pieces Bearing a Simplified Address Enter Date of Delivery Statistics File or Alternative Method
03/16/2015	03/16/2015		

Move Update Method: ☐ Ancillary Service Endorsement ☒ NCOA Link ☐ ACS ☐ Alternative Method ☐ Multiple ☐ OneCode ACS ☐ n/a Alternative Address Format

This is a Political Mailing ☐ Yes ☒ No | This is Official Election Mail ☐ Yes ☒ No | ☐ Letter-size or flat mailpiece contains DVD/CD or other disk.

Postage

Parts Completed (Select all that apply) ☒ A ☒ B ☐ C ☐ D ☐ E ☐ F ☐ G ☐ H ☐ L ☐ M ☐ S ☐ NSA

1	**Subtotal Postage** (Add Parts Totals)	$394.22
2	Price at Which Postage Affixed (Check one). Complete if the mailing includes pieces bearing metered/PC Postage or precanceled stamps. ☐ Correct ☐ Lowest ☐ Neither ____ pcs. x $____ = **Postage Affixed**	-
3	Incentive/Discount Flat Dollar Amount:	-
4	Fee Flat Dollar Amount:	+
5	**Permit #** **Net Postage Due** (Line 1 +/- Lines 2, 3, 4)	$394.22

USPS Use

Additional Postage Payment (State reason)	
For postage affixed, add additional payment to net postage due; for permit imprint add additional payment to total postage. **Total Adjusted Postage Affixed**	
Postmaster: Report Total Postage in AIC 130 (Permit Imprint Only, Excluding Simplified Addressing (EDDM)) **Total Adjusted Postage Permit Imprint**	
Postmaster: Report Total Postage in AIC 208 (Simplified Addressing (EDDM), Permit Imprint Only) **Total Adjusted Postage Simplified Addressing (EDDM)**	

Certification

Incentive/Discount Claimed: _____ Type of Fee: _____

The mailer's signature certifies acceptance of liability for and agreement to pay any revenue deficiencies assessed on this mailing, subject to appeal. If an agent signs this form, the agent certifies that he or she is authorized to sign on behalf of the mailer and that the mailer is bound by the certification and agrees to pay any deficiencies. In addition, agents may be liable for any deficiencies resulting from matters within their responsibility, knowledge, or control. The mailer hereby certifies that all information furnished on this form is accurate, truthful, and complete; that the mail and the supporting documentation comply with all postal standards and the mailing qualifies for the prices and fees claimed; and that the mailing does not contain any matter prohibited by law or postal regulation. I understand that anyone who furnishes false or misleading information on this form or who omits information requested on this form may be subject to criminal and/or civil penalties, including fines and imprisonment. PALMER ADDRESSING + MAILING CO

Privacy Notice: For information regarding our Privacy Policy visit www.usps.com.

Signature of Mailer or Agent	Printed Name of Mailer or Agent Signing Form	Telephone
Aubrey Provost + MAILING CO	Aubrey Provost	310-204-1988

USPS Use Only To be completed in non-PostalOne! sites

Weight of a Single Piece 0. pound

Total Pieces | Total Weight

Total Postage

Presort Verification Performed? (If required) ☐ Yes ☐ No (Check one)

I CERTIFY that this mailing has been inspected for each item below if required:
(1) eligibility for postage prices claimed;
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(3) proper completion of postage statement;
(4) payment of annual fee; and
(5) sufficient funds on deposit (if required)

USPS Employee's Signature

Are postage figures at left adjusted from mailer's entries? If yes, reason: ☐ Yes ☐ No

Date Mailer Notified | Contact

By (Initials) | Time AM PM

Print USPS Employee's Name

Round Stamp (Required) Payment Date

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Mail Sort Summary Report

This summary information is provided as output from Bulk Mailer. It is intended for personal information only and is not to be submitted to the USPS.

General Information

Job ID	Input Record Count	Current Group	Mail Owner's Mailer ID
16661	1,512		905929001
Statement Number	**Mail Drop ZIP Code**	**List Name**	**Mailing Agent's Mailer ID**
171156	90052	Lee Andrew LAUSD.bmf	
Current Date	**Mailing Date**	**Product Name**	**PostalOne! Job ID**
Mar 16, 2015	Mar 16, 2015	Bulk Mailer Professional v. 5.9.0 Sort Data v 03/01/2015-04/30/2015	ANLBXVX

Sort/Piece Options

Sort Class	Piece Type	Machinability	Barcoding
☐ First-Class Mail ☐ Periodicals ☒ Standard Mail ☐ Package Services	☐ Postcards ☒ Letters ☐ Flats ☐ Marketing Parcels ☐ Parcels ☐ Irregular Parcels	☒ Machinable ☐ Nonmachinable Piece Height: 4.250 in(s). Piece Thickness: 0.020 in(s).	☒ Intelligent Mail ☐ Postnet Piece Width: 9.500 in(s). Piece Weight: 0.4000 oz(s).

Container Options

Sack Options		Tray Options	Min Pieces	Max Pieces	Min %	Max %
Min Pieces		1-Foot Trays	436	512	85.00	100.00
Max Pieces		2-Foot Trays	893	1050	85.00	100.00
Max Sack Weight	lbs	EMM Trays				
		Tubs				

Maximum Bundle Thickness: 6.000 in(s).

Permit and Payment

Permit Template Name	Permit Holder Name
PAMCo - LAUSD - 592	PAMCo

Permit Number	Permit Type	Postage Applied	Federal Agency Code
592	Permit Imprint	Exact	

Discounts

Rate Type

☐ Nonprofit ☐ Limited Circulation ☐ Election Mail ☐ Other

Mail Drop Post Office		DDU
SCF		
NDC		
ADC		

Presort Summary

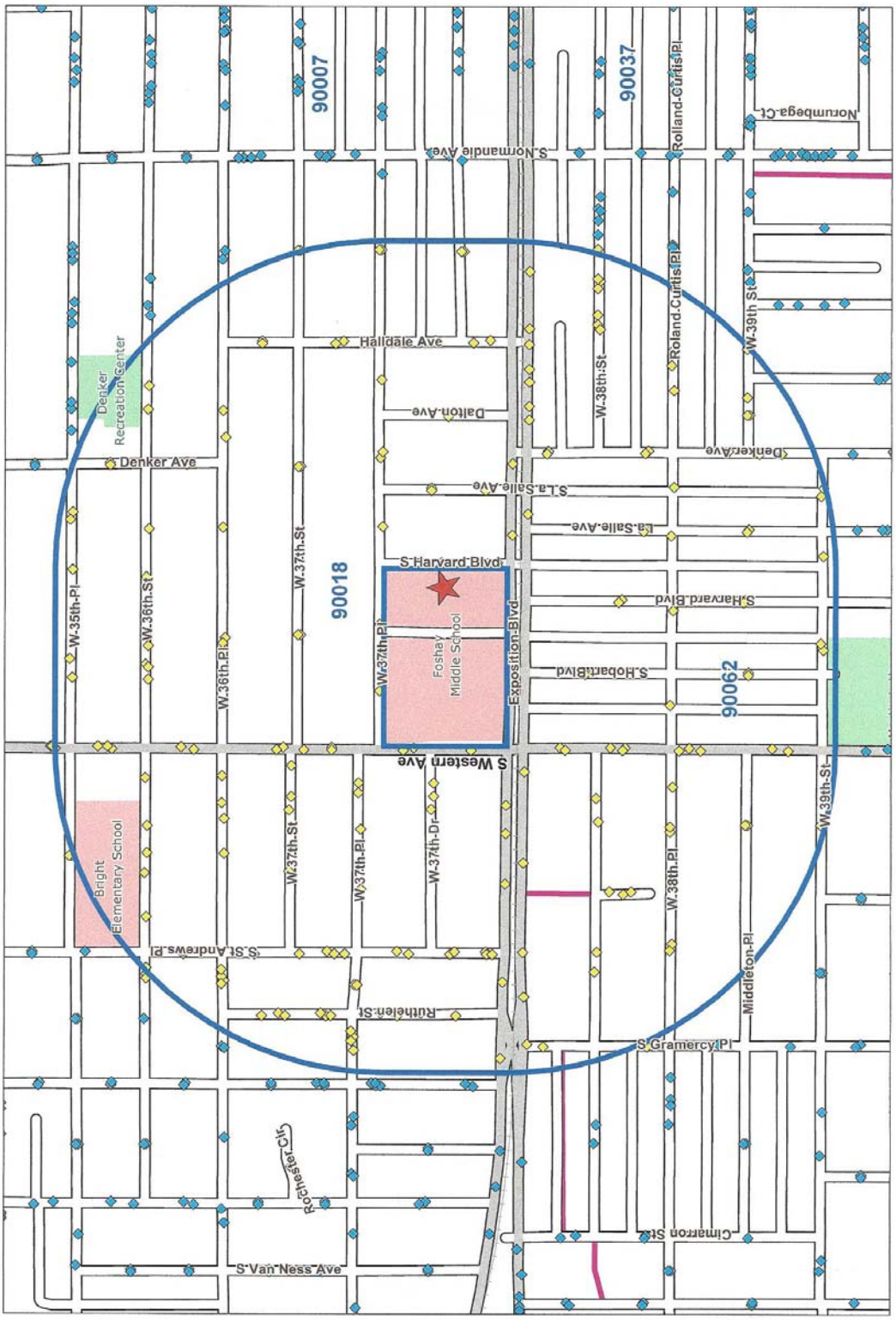
Sort	Name	Count	1-Foot Trays	2-Foot Trays	EMM Trays	Sacks	Tubs	Pallets
Level 1	Automation	1,471	6	1				
Level 2	Nonautomation	31	2					
Level 3								
Level 4								
Remain		10						
Totals		1,512	8	1				

Postage Summary

Single Piece Postage	Presorted Postage	Postage Savings
1502 x 0.490 = $735.980	$394.22	$341.77

Printed by Bulk Mailer, Satori Software Inc., (206) 357-2900

1/4 Mile Radius - 3751 S. Harvard Blvd, 90018



Los Angeles Unified School District

Office of Environmental Health and Safety

RAMON C. CORTINES
Superintendent of Schools

THELMA MELÉNDEZ, PH.D.
Chief Executive Officer, Office of Educational Se

ROBERT LAUGHTON
Director, Environmental Health and Safety

CARLOS A. TORRES
Deputy Director, Environmental Health and Safe

March 13, 2015

TO: Community Members and Neighbors of the Proposed Foshay Learning Center Redevelopment Project

FROM: Los Angeles Unified School District (LAUSD)
Office of Environmental Health and Safety (OEHS)

REGARDING: Preliminary Environmental Assessment
Foshay Learning Center
3751 S. Harvard Boulevard, Los Angeles, CA 90018

The LAUSD OEHS would like to provide you with advance notice of an environmental site investigation as part of a Preliminary Environmental Assessment (PEA) that will be conducted at the Foshay Learning Center. The area is currently developed with portable and modular classrooms and buildings which will be removed and some replaced with permanent structures. In addition, the hardcourts and playfields will be revised as part of the improvements. Foshay Learning Center is located at 3751 S. Harvard Boulevard in Los Angeles.

A licensed contractor, working on behalf of the LAUSD, will perform the environmental investigation. The environmental investigation will consist of the sampling of soil for chemicals at recognized environmental conditions (RECs) identified during a previous Phase I Environmental Site Assessment. The LAUSD is voluntarily conducting an environmental review as part of the redevelopment. If necessary, a cleanup will be performed prior to the redevelopment to protect students, faculty and staff who would use the areas.

Fieldwork is scheduled to begin on Saturday, March 28, 2015, and will continue through April 5, 2015, the subsequent Sunday. All work will be conducted from approximately 8:00 a.m. to 5:00 p.m., as necessary. No other properties will be tested. It is not expected that any street closures will be necessary during the investigation.

Results of the investigation will be included in a PEA Report that will be made available for public review. The PEA Report will include an assessment of the contaminants, if any, present in the soil at concentrations that require a response action before the area of the Site is cleared for redevelopment.

If you have any questions concerning the upcoming environmental investigation or other related activities in the vicinity of Foshay Learning Center, please contact Mr. Eric Longenecker, LAUSD Office of Environmental Health and Safety Project Manager, at (213) 241-6259 or email at eric.longenecker@lausd.net.

Si prefiere hacerlo en español, por favor comuníquese con el Sr. José De Paz, LAUSD Community Relations, *al (213) 241-6523 o* jose.depaz@lausd.net

333 South Beaudry Avenue, 28th Floor, Los Angeles, CA 90017 • Telephone (213) 241-3199 • Fax (213) 241-6816

The Office of Environmental Health and Safety is dedicated to providing a safe and healthy environment for the students and employees of the Los Angeles Unified School District

Distrito Escolar Unificado de Los Angeles

Oficina de Salud y Seguridad Ambiental

RAMON C. CORTINES
Superintendente de escuelas

THELMA MELÉNDEZ, PH.D.
Directora Ejecutiva, Oficina de Servicios Educativos

ROBERT LAUGHTON
Director, Salud y Seguridad Ambiental

CARLOS A. TORRES
Subdirector, Salud y Seguridad Ambiental

13 de Marzo de 2015

A: Miembros de la Comunidad y Vecinos del Proyecto de Mejoras Propuesto para Foshay Learning Center

DE: Distrito Escolar Unificado de Los Ángeles (LAUSD, por sus siglas en inglés)
Oficina de Salud y Seguridad Ambiental (OEHS, por sus siglas en inglés)

ASUNTO: Evaluación Medioambiental Preliminar
Foshay Learning Center
3751 S. Harvard Boulevard, Los Ángeles, CA 90018

El LAUSD OEHS desea notificarle con anticipación de una investigación ambiental de este sitio como parte de la Evaluación Medioambiental Preliminar (PEA, por sus siglas en inglés) que se llevará a cabo en un área dentro de Foshay Learning Center. El área está actualmente desarrollada con aulas portátiles y edificios, algunos de los cuales serán remplazados con estructuras permanentes. Además, se harán mejoras a las canchas de juego y campos deportivos. Foshay Learning Center está ubicada en el 3751 S. Harvard Boulevard en Los Ángeles.

Un contratista autorizado que trabaja de parte del LAUSD realizará la investigación ambiental. La investigación ambiental consistirá de toma de muestras de tierra en busca de químicos (RECs, por sus siglas en inglés) identificados durante una investigación anterior que se llevó a cabo durante la Fase 1 de una Evaluación Ambiental de Sitios. El LAUSD voluntariamente conduce revisiones ambientales para sus proyectos existentes para mejorar la escuela. Si es necesario, se realizará una limpieza antes de iniciar la construcción, para protección de estudiantes, maestros y personal que ocuparán las áreas.

El trabajo de campo comenzará el sábado, 28 de marzo de 2015 y continuará hasta el 5 de abril de 2015, el domingo siguiente. Todo el trabajo de campo se realizará en fines de semana y días festivos desde aproximadamente 8:00 a.m. a 5:00 p.m. Ninguna otra propiedad será investigada. No se espera que sea necesario el cierre de calles durante la investigación.

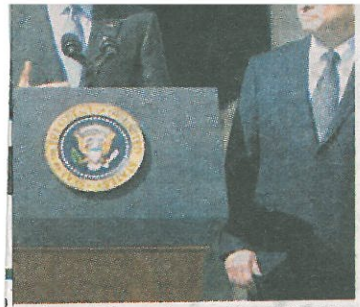
Los resultados de la investigación serán incluidos en un Informe PEA que estará disponible para la revisión pública. El Informe PEA incluirá una evaluación de los contaminantes si se presentaran en las muestras de tierra en concentraciones que requerirían acción de respuesta antes de que el área sea limpiada para su utilidad.

Si tiene alguna pregunta sobre de la investigación ambiental o alguna otra actividad relacionada a este proyecto en el Foshay Learning Center, por favor comuníquese con el Sr. Eric Longenecker, Gerente de Proyecto de la Oficina de Salud y Seguridad Ambiental del LAUSD al (213) 241-6259 o correo electrónico a eric.longenecker@lausd.net.

Si prefiere hacerlo en español, por favor comuníquese con el Sr. José De Paz, LAUSD Community Relations, *al (213) 241-6523 o* jose.depaz@lausd.net

333 South Beaudry Avenue, 27th Floor, Los Angeles, CA 90017 • Teléfono (213) 241-3199 • Fax (213) 241-6816

La Oficina de Salud y Seguridad Ambienta está dedicada a proveer un ambiente seguro y saludable
Para los estudiantes y empleados del Distrito Escolar Unificado de Los Angeles.



a pide al Senado ser "justo" con no. / EFE

Senado debe cumplir con el suyo. Los presidentes no dejan de trabajar en el último año de su mandato y los senadores tampoco deberían", subrayó Obama.

tica" partidista.

"La reputación del Tribunal Supremo sufrirá inevitablemente y la confianza en el sistema judicial sufrirá inevitablemente", agregó.

La respuesta en el Senado no se hizo esperar. El líder republicano en la Cámara alta, Mitch McConnell, confirmó que bloqueará cualquier votación sobre Garland con el objetivo de que sea el próximo presidente estadounidense quien elija al sustituto de Scalia en la corte integrada por nueve jueces.

"La gente de EEUU puede elegir a un presidente que designe a Garland o puede elegir a un presidente que designe a

como el presidente de la Cámara Baja, Paul Ryan, y el senador que preside el Comité Judicial del Senado, Chuck Grassley, respaldaron la decisión de McConnell.

"No nos callaremos mientras Obama intenta instalar una mayoría progresista en el Supremo para minar nuestra Constitución y proteger sus acciones ilegales", indicó el presidente del Comité Nacional Republicano, Reince Priebus, en su cuenta de *Twitter*.

La Casa Blanca aseguró que Obama no retirará la nominación de Garland incluso si la obstrucción en el Congreso se prolonga hasta que abandone el poder en enero. ●

AVISO DEL PERÍODO DE COMENTARIO Y REUNIÓN SOBRE LA EVALUACIÓN AMBIENTAL PRELIMINAR (PEA)
JAMES A. FOSHAY CENTRO DE APRENDIZAJE
PROYECTO DE MODERNIZACIÓN
3751 S. Harvard Boulevard, Los Angeles

PERÍODO DE COMENTARIOS DEL PÚBLICO: 17 DE MARZO AL 18 DE ABRIL, 2016

¿QUÉ SE ESTÁ PROPONIENDO?

El Distrito Escolar Unificado de Los Ángeles (LAUSD) invita al público a proveer comentarios sobre la Evaluación Ambiental Preliminar (PEA) para la modernización del centro de aprendizaje James A. Foshay en Los Ángeles, California. La PEA Preliminar presenta los resultados de las investigaciones realizadas, documenta la remoción y desecho fuera del sitio de aproximadamente 80 toneladas de suelo con concentraciones elevadas de arsénico y plomo, e incluye recomendaciones relativas a las actividades de construcción en el futuro.

¿PORQUÉ ESTE AVISO Y DÓNDE/CUÁNDO ES LA REUNIÓN PÚBLICA?

El propósito de este aviso y reunión es para proporcionar a la comunidad una oportunidad de aprender más sobre el proyecto y para proporcionar comentarios sobre la PEA. La reunión pública se llevará a cabo en:

Martes, 29 de Marzo, 2016
A partir de 6:00 to 7:30 p.m.
James A. Foshay Centro de Aprendizaje
3751 S. Harvard Boulevard, Los Angeles

¿CÓMO PUEDO PARTICIPAR?

Este aviso provee a la comunidad la oportunidad de hacer comentarios a LAUSD durante el período de comentarios públicos. Todos los comentarios por escrito deben enviarse por correo o por correo electrónico antes del 15 de Abril, 2016. Los comentarios con respecto a la PEA pueden ser enviados a la siguiente dirección o enviado por correo electrónico a eric.longenecker@lausd.net:

LAUSD Oficina de Salud y Seguridad Ambiental
333 South Beaudry Avenue, Piso 21, LA, CA 90017
(213) 241-4263 Número de Teléfono; (213) 241-8616 Facsímil
Atención: Eric Longenecker, Administrador de Proyecto de la Evaluación del Sitio

¿DÓNDE PUEDO OBTENER MÁS INFORMACIÓN?

Una copia del borrador estará disponible durante las horas de operación regulares de la Oficina de Salud y Seguridad Ambiental del LAUSD en la dirección mencionada anteriormente y también en los siguientes lugares:

- **James A Foshay Learning Center:** 3751 S. Harvard Blvd, Los Angeles, CA
- **Exposition Park Library:** 3900 S Western Avenue, Los Angeles, CA
- **En la Página de Red de LAUSD:** http://achieve.lausd.net/Page/3451

Si desea más información por favor comuníquese con el Sr. José De Paz al (213) 241-1334 o por correo electrónico a jose.depaz@lausd.net

109-10110984

DAILY NEWS LOS ANGELES

21860 BURBANK BLVD #200, WOODLAND HILLS, CA 91367
Telephone (818) 713-3393 / Fax (818) 713-3377

This space for filing stamp only

PROOF OF PUBLICATION

(2015.5 C.C.P.)

State of California)
County of LOS ANGELES) ss

Notice Type: GPN - GOVT PUBLIC NOTICE

Ad Description:

JAMES A. FOSHAY LEARNING CENTER MODERNIZATION PROJECT 3751 S. HA

I am a citizen of the United States and a resident of the State of California; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the principal clerk of the printer of the DAILY NEWS LOS ANGELES, a newspaper published in the English language in the city of LOS ANGELES, county of LOS ANGELES, and adjudged a newspaper of general circulation as defined by the laws of the State of California by the Superior Court of the County of LOS ANGELES, State of California, under date 05/26/1983, Case No. C349217. That the notice, of which the annexed is a printed copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

03/18/2016

Executed on: 03/18/2016
At Los Angeles, California

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Signature

* A 0 0 0 0 0 4 0 4 2 8 8 4 *

CNS#: 2859367

NOTICE OF PUBLIC COMMENT PERIOD AND MEETING DRAFT PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA) JAMES A. FOSHAY LEARNING CENTER MODERNIZATION PROJECT 3751 S. HARVARD BOULEVARD, LOS ANGELES

Public Comment Period: March 17 to April 18, 2016

What's Being Proposed?
The Los Angeles Unified School District (LAUSD) invites public comment on the draft Preliminary Environmental Assessment Equivalent (PEA) report for the modernization of the James A. Foshay Learning Center in Los Angeles, California. The Draft PEA presents the findings of environmental investigations performed, documents the removal and off-site disposal of approximately 80 tons of soil with elevated concentrations of arsenic and lead, and includes recommendations concerning associated future construction activities.

WHY THIS NOTICE AND WHERE/WHEN IS THE PUBLIC MEETING?
The purpose of this notice and public meeting is to provide the community with an opportunity to learn more about the project and to provide comments on the PEA. The public meeting will be held on:

Tuesday, March 29, 2016
From 6:00 to 7:30 p.m.
James A. Foshay Learning Center
3751 S. Harvard Boulevard, Los Angeles

How Do I Participate?
The community has an opportunity to provide comments to LAUSD during the public comment period. All written comments must be postmarked or e-mailed by April 15, 2016. Comments concerning the draft PEA may be submitted in writing to the following address or emailed to eric.longenecker@lausd.net:

LAUSD Office of Environmental Health and Safety
333 South **Beaudry** Avenue, 21st Floor, LA, CA 90017
(213) 241-4263 Telephone Number;
(213) 241-8616 Facsimile
Attention: Eric Longenecker, Site Assessment Project Manager

WHERE DO I GET MORE INFORMATION?

A copy of the draft PEA is available during regular office hours at the LAUSD Office of Environmental Health and Safety address listed above and at the following locations:
- **James A Foshay Learning Center:** 3751 S. Harvard Blvd, Los Angeles, CA
- **Exposition Park Library** : 3900 S Western Avenue, Los Angeles, CA
- **LAUSD Website:** http://achieve.lausd.net/Page/3451

Si desea más información por favor comuníquese con el Sr. José De Paz al (213) 241-1334 o por correo electrónico a jose.depaz@lausd.net
3/18/16
CNS-2859367#
DAILY NEWS LOS ANGELES

LOS ANGELES UNIFIED SCHOOL DISTRICT
Facilities Services Division – Community Relations Department

FOSHAY LEARNING CENTER
MODERNIZATION PROJECT

COMMUNITY MEETING

Please join us to discuss the PEA and the latest on this significant investment in your school to improve student health, safety, and their educational experience

Tuesday, March 29, 2016
6:00 p.m. at
Foshay LC Auditorium
3751 S. Harvard Blvd.
Los Angeles, CA 90018

At this meeting we will provide updates on this important modernization project for your campus:

- Design of the new classroom buildings & other structures
- Preliminary Environmental Assessment (PEA) (*Please see box at right*)
- Preparations for construction
- Approximate timeline for the project

Preliminary Environmental Assessment (PEA)

The Los Angeles Unified School District's (LAUSD) invites public comment on the Draft PEA for the Modernization of the James A. Foshay Learning Center in Los Angeles, California. The Draft PEA presents the findings of environmental investigations performed and documents the removal and off-site disposal of approximately 80 tons of soil with elevated concentrations of arsenic and lead.

Next Steps

- **The draft PEA will be available for review** from March 15 to April 15, 2016, electronically and at the following information repositories during regular office hours:
  - **LAUSD Office of Environmental Health and Safety**, 333 S. Beaudry Ave. 21st Floor, Los Angeles, CA 90017
  - **James A Foshay Learning Center:** 3751 S. Harvard Blvd, Los Angeles, CA 90018
  - **Exposition Park Library:** 3900 S. Western Avenue, Los Angeles, CA 90062
  - **LAUSD Website:** http://achieve.lausd.net/Page/3451
- The public will have an opportunity to comment on the draft PEA at the Public Meeting on March 29, and during the 30-day Public Comment Period (see below).
- At the close of the public comment period and after the meeting, LAUSD will review and consider all comments received and make any necessary revisions to the draft PEA prior to final publication.

Public Comment Period: March 17 to April 18, 2016

LAUSD encourages you to review, and comment on the draft PEA. **Please submit comments to:**
Mr. Eric Longenecker, Site Assessment Project Manager
333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017

For more information please call *José De Paz, LAUSD/FSD Community Relations*
Main Line (213) 241-1340, Direct Line (213) 241-1334, or email to jose.depaz@lausd.net

LOS ANGELES UNIFIED SCHOOL DISTRICT
Facilities Services Division – Community Relations Department

FOSHAY LEARNING CENTER

PROYECTO DE MODERNIZACIÓN

Reunión Comunitaria

Venga y entérese sobre el Reporte de PEA y lo último sobre este proyecto de modernización, una gran inversión en su escuela para mejorar la salud, seguridad y experiencia educativa de nuestros estudiantes

Martes, 29 de Marzo, 2016
6:00 p.m. en
Auditorio de Foshay LC
3751 S. Harvard Blvd.
Los Angeles, CA 90018

Le actualizaremos sobre aspectos de este gran proyecto de modernización para Foshay LC:

- El diseño arquitectónico del edificio de salones y otras estructuras nuevas
- El Estudio Medioambiental Preliminar (PEA) (*Detalles en la sección al lado*)
- Preparativos para la construcción
- Fechas claves del proyecto, aproximadas

Evaluación Ambiental Preliminar (PEA)

El Distrito Escolar Unificado de Los Ángeles (LAUSD) invita al público a proveer comentarios sobre la Evaluación Ambiental Preliminar (PEA) para la modernización del James A. Foshay Learning Center en Los Ángeles, California. El PEA presenta los resultados de investigaciones realizadas, y documenta la remoción y desecho fuera del sitio de aproximadamente 8 toneladas de tierra con concentraciones elevadas de arsénico y plomo.

Próximos Pasos

- **El Reporte del PEA estará disponible para su revisión** electrónicamente y en los siguientes repositorios de información, de Marzo 17 a Abril 18 de 2016, en horas regulares de oficina:
  - **LAUSD- Oficina de Salud y Seguridad Ambiental**, 333 S. Beaudry Ave. Piso 21, Los Angeles, CA 90017
  - **James A Foshay Learning Center:** 3751 S. Harvard Blvd, Los Angeles, CA 90018
  - **Exposition Park Library:** 3900 S. Western Avenue, Los Angeles, CA 90062
  - **Pagina Web de LAUSD:** http://achieve.lausd.net/Page/3451
- El público podrá comentar sobre el PEA en la Reunión Pública del 29 de Marzo, y durante el Período de Comentarios Públicos de 30 días (vea abajo).
- Después del Período de Comentarios Públicos, LAUSD estudiará y considerará los comentarios recibidos y hará las revisiones necesarias para su publicación final.

Período de Comentarios Públicos:
de Marzo 17 hasta Abril 18, 2016

Envíe sus comentarios a:
Mr. Eric Longenecker, Site Assessment Project Manager, 333 S. Beaudry Ave., 21st Floor, Los Angeles, CA 90017

Para más información por favor llame a *José De Paz, LAUSD/FSD Community Relations*
Línea central (213) 241-1340, Línea directa (213) 241-1334, o email a jose.depaz@lausd.net

LOS ANGELES UNIFIED SCHOOL DISTRICT
Facilities Services Division – Community Relations Department

THE PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)
AND PROJECT UPDATE FOR THE
FOSHAY LEARNING CENTER MODERNIZATION PROJECT

TUESDAY, MARCH 29, 2016
FOSHAY LEARNING CENTER AUDITORIUM — 6 P.M.

A G E N D A

I. **Welcome and Objectives of the Meeting /** *Bienvenida y Objetivos de la Reunión*
— JOSÉ DE PAZ, FSD COMMUNITY RELATIONS

II. **Brief Overview of the Project** / *Breve Repaso del Proyecto*
— MITRA NEHORAI, PROJECT DEVELOPMENT MANAGER

III. **Interim Student Housing During Construction**
Actualización: Ubicación de Salones de Clases Durante la Construcción
— RUSSELL MCCARLEY, SENIOR DESIGN MANAGER

IV. **A. Open Public Hearing & Review of the Environmental Process**
Inicio de Audiencia Pública y Detalles del Proceso Medioambiental
— ERIC LONGENECKER, SITE ASSESSMENT PROJECT MANAGER

B. Findings of the Preliminary Environmental Assessment (PEA)
Resultados del Estudio Medioambiental Preliminar (PEA)

C. Questions and Comments Related to the PEA
Preguntas y Comentarios Relacionados al PEA

D. Close Public Hearing / *Cierre de Audiencia Pública*

V. **Questions & Comments /** *Preguntas y Comentarios*
— JOSÉ DE PAZ

THE LOS ANGELES UNIFIED SCHOOL DISTRICT

FACILITIES SERVICES DIVISION

COMMUNITY RELATIONS DEPARTMENT

ORIGINAL

THE PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA) AND PROJECT UPDATE FOR THE FOSHAY LC SEISMIC MODERNIZATION PROJECT

OPEN PUBLIC HEARING & REVIEW OF THE ENVIRONMENTAL PROCESS

LOS ANGELES, CALIFORNIA

TUESDAY, MARCH 29, 2016

Reported by:
MARIA L. WALLACE
CSR No. 10234
Job No.: 2277853
PAGES 1 - 15

Veritext Legal Solutions
866 299-5127

THE LOS ANGELES UNIFIED SCHOOL DISTRICT

FACILITIES SERVICES DIVISION

COMMUNITY RELATIONS DEPARTMENT

THE PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)

AND PROJECT UPDATE FOR THE

FOSHAY LC SEISMIC MODERNIZATION PROJECT

The OPEN PUBLIC HEARING & REVIEW OF THE ENVIRONMENTAL PROCESS was taken on behalf of The Site Assessment Project Manager, at 3751 Harvard Boulevard, The Auditorium, Los Angeles, California, commencing at 6:34 P.M. and ending at 6:47 P.M., Tuesday, March 29, 2016, before MARIA L. WALLACE, Certified Shorthand Reporter No. 10234.

APPEARANCES:

JOSE DE PAZ, FSD COMMUNITY RELATIONS

MITRA NEHORAI, PROJECT DEVELOPMENT MANAGER

ERIC LONGENECKER, SITE ASSESSMENT PROJECT MANAGER

LOS ANGELES, CALIFORNIA; TUESDAY, MARCH 29, 2016

6:34 P.M. - 6:47 P.M.

* * * * *.

MR. DE PAZ: Thank you. Thank you very much. I know you'll have some questions for Mitra part of the presentation. Don't worry. We'll answer all of them.

Like I said, in a projects, um, that we have to look at the site any time there's any movement of buildings or classrooms, any time you disturb any soil or anything like that, you have to do what they call a preliminary assessment -- Departmental -- preliminary environmental assessment, a D.E.A.

And to give a -- share with you that process and -- and that assessment and what happened is -- is Mr. Eric Longenecker, who is the site assessment project manager.

MR. LONGENECKER: Thank you very much, Jose.

So I work with the Office of Environmental Health and Safety. This is just our introductory slide.

So whenever we're going to -- the district likes to take advantage of any time we have a larger project, where we're going to be disturbing the soil, to do a study to find out was anything left by any of the prior uses of the site.

And it's a little different than when we had our major building program, where we took sites that were not schools and turned them into schools.

There was a lot more oversight, but this is just sort of internally. We want to make sure that we can find out what needs -- if there was anything there, and so that we can handle it, in the best way possible, before we move forward, for the safety of the students, faculty and any workers involved in the construction of the site.

So I'm going to run through what the clean-up process is and then we're going to go through any questions about this. And the environmental document that -- I have copies of it up here -- are available to review, and they're not considered final, until the public has had a chance to weigh in on them.

And then so they are only considered draft, until the end of the public comment period and we've had an opportunity to incorporate, obviously, the public comments into the document.

So we initiated the preliminary site assessment, which is not very exciting.

Next slide. So this is the Foshay campus. And if you look in that lower, left corner that used to be a former service station. And -- so that's one the

things that we paid special attention to, because it's possible there could have been underground storage tanks or something there that would have contaminated soil, soil vapor or even ground water.

I'll jump ahead and say we didn't find anything. We did a special investigation for that.

So next slide.

So each one of these dots is where -- is where we collected soil samples. Down here, we collected deeper samples and we collected soil vapor samples.

For the rest of it, there was no -- shallow soil down to three feet was tested because, when we do -- when we disturb everything it just -- nothing else is really going to get bothered by it.

So, again, we did the special things here. We didn't find anything. This is part of the soil samples that -- soil sampling program location we did.

Next slide.

And then we went around all these areas, where the buildings are being removed. And the reason for that is, um, lead paint was legal, when they built this school and our buildings got painted with lead-base paint. And we want to make sure, if it fell into the soil, that it would be managed properly.

So the good news, if you will, we were able to

document that there was no impact, from the adjacent service station.

One of the things that, after World War II, chemicals was the solution to everything. So a lot of pesticides were used. We tested for pesticides at those locations shown, and we were able to document that there were not any pesticides at any concentration of concern for this project.

We did identify areas of shallow soil, where there were elevators levels of lead, which is -- prominently would be associated with the lead-base paint.

And there was also arsenic which was used as a termidicide, for wood structures, in the past, and also to apply underneath pavement as a herbicide, to keep the weeds from going.

So we sampled all over the place. We found three locations, where there were -- most of the areas capped with pavement, so there would be no exposure route.

We did find some areas that it was exposed. So in an abundance of caution, we went ahead and removed that soil and replaced it with clean soil; approximately 80 tons worth.

And we still have one location that is covered

with asphalt, so it is not -- it is -- nobody's going to get hurt by it, because it's covered with asphalt, but we want to make sure that it gets addressed specifically, with the construction program that will go in and remove the soil, at that time.

There's just no point in removing asphalt, bringing dirt, and repaying it all when it's gonna have a project of the magnitude that we're anticipating here.

So, in this little grass area here, we removed some arsenic soil in the planters in front. You might have noticed, over the winter recess, the fully established plants right out here.

Some of them went away and got replaced with much smaller plants that will grow and become larger in the further. And then these areas that are along here, we -- we encountered lead with soil. High concentrations of lead that were removed and replaced with clean soil.

So that -- right now there is no -- there is no issues for this site. And that's all documented in the reports that is currently draft and will become final, after the public has had a chance to comment on it.

And with that, that's my presentation. If you want to go in -- and the public comment period started

March 17th. Ends on May 18th. What we try to do is have these public comment periods --

UNKNOWN SPEAKER: April 18.

MR. LONGENECKER: April 18th. Sorry.

We try to have the -- the meetings somewhere in the middle, so it involved parties -- have a chance if they wish to review the documents, they can come and make informed questions here.

And then, also, if they -- if they come up with an interest on -- about something, based on what I said today, they have enough time to review the actual document, before it gets finalized.

And the document is available here, Exposition Park Library. You can go to District's office, near downtown Los Angeles. And it's also available for download at this web side, at the District's website, which I would suggest because it's just too much paper.

So any way, there's my name and telephone number. If you have any questions concerning the PEA itself, and if you have any questions about the overall project, please speak with Jose.

MR. DE PAZ: So right now, if you have any questions that are related directly to Eric's presentation to the -- to the PEA, to the soil removal, to the soil study and all that, if you -- if you have

any of those questions, we'd like to take those right now so they can be recorded.

He brought a court reporter, as part of this process, and it becomes a formal document.

Yes, Sir?

THE SPEAKER: My name is Edwardo, and I just wondered about the automobile place right there.

MR. DE PAZ: They sell used cars?

MR. LONGENECKER: Yeah, yeah, yeah.

MR. DE PAZ: There's, like, a --

MR. LONGENECKER: Correct. Yeah, yeah, yeah.

MR. DE PAZ: They do a lot of smog and mechanic repairs. If that -- that place still gonna be there, then the place is done, gonna be removed from there.

MR. LONGENECKER: We don't have the ability to -- to take private property that we don't need to expand the school.

With the new improvements, the school will be able to meet all of the latest educational requirements, without growing the actual footprint land area of the school.

So that will remain as it is. But, as I said, we did do the soil samples next to it, so we know that there is nothing encroaching on to the students or

faculty.

MR. DE PAZ: So it's remaining there. It's not going to affect students.

MR. LONGENECKER: Yeah.

THE SPEAKER: First of all because, you know, we were expecting this building to be nice and just leave the little place over, but I understand what you said. You don't have the authority to do that.

So thank you.

MR. DE PAZ: Yes, Sir?

THE SPEAKER: A follow-up question. Is that parcel belong to LA Unified as being leased or rented to an individual, or is it separately owned --

MR. LONGENECKER: Yes.

THE SPEAKER: -- parcel?

MR. LONGENECKER: It is -- it is owned by another individual -- another private individual.

MR. DE PAZ: Any other questions related to -- oh, yes, Sir.

THE SPEAKER: Yes. What are they going to do with the dust that they tear down these buildings with? What are they -- what are the, um...

MR. LONGENECKER: The --

THE WITNESS: -- process?

MR. LONGENECKER: The dust will be something

that will be addressed more, when they talk about the construction.

Sort of, the Office Environmental Health and Safety is from the ground surface down.

But dust is something that's very important to the construction people, when they go -- when they go through it, because they understand.

And that will be one of the things that they will be making sure that they do not create an impact to the students.

THE SPEAKER: I'm worried about the students. What about the neighbors that live across the street?

MR. DE PAZ: As Mitra mentioned in her presentation, and we'll get more into that right after this.

Right before construction of any kind begins, we hold what we call a pre-construction community meeting to address, precisely, those -- the dust, the noise, the hours of operation, how it is going to impact the learning process.

The students still have to come to school and be learning, so we bring that information to you; how it's gonna be mitigated, how it's gonna be remediated or minimized. That's the main topic for that meeting.

Right now we don't have, at this stage, the

construction -- the actual construction folks, the project execution group, from the District, who will be, actually, doing the construction.

But, when their times come to -- for their part of the project, they will bring it directly to you so they can answer, exactly, those questions. But we are taking into account.

We can guarantee they're not just gonna start building or demolish any buildings or anything, without first giving a plan to mitigate that and share that with community.

And with enough contact information and numbers so that anybody who has any complaint, when this happening they can call right away.

And if it needs watering something more often, or whatever needs to be done, to minimize the community, it will -- that's what we have interest in.

Yes, Sir?

THE SPEAKER: What are they going to do with the signal up there now? The corner right here. Is they gonna be a signal or put signs up there, school zones?

MR. LONGENECKER: That's beyond the scope of the preliminary portion of this. I don't know if you want to address it now or just wait until the end.

MR. DE PAZ: Yeah. We'll address that question, when Mitra will address it.

Any other about the PEA?

(No response.)

MR. DE PAZ: About the soil?

(No response.)

MR. DE PAZ: No?

Okay. I think -- I think Eric is also gonna be staying until midnight. So, if you have any questions, we can ask him, after we close the meeting.

Let's open it up to the questions, like, the one this gentleman brought up, in general, about the project.

MR. LONGENECKER: Thank you very much.

MR. DE PAZ: Thank you, Eric.

(The deposition was concluded at 6:47 P.M.)

I, the undersigned, a Certified Shorthand Reporter, of the State of California, do hereby certify:

That the foregoing proceedings were taken before me at the time and place herein set forth; that any witnesses in the foregoing proceedings, prior to testifying, were administered an oath; that a record of the proceedings was made by me, using machine shorthand, which was thereafter transcribed under my direction; further, that the foregoing is a true record of the testimony given.

Further, that if the foregoing pertains to the original transcript of a deposition in a Federal Case, before completion of the proceedings, review of the transcript [ ] was [X] was not requested.

I further certify I am, neither financially interested in the action, nor a relative or employee of any attorney or any party to this action.

IN WITNESS WHEREOF, I have this date subscribed my name _____.

Dated: 4-8-2016



MARIA L. WALLACE

CSR No. 10234

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From:	José De Paz
To:	Longenecker, Eric
Cc:	Nehorai, Mitra; Gonzales, John; Espinoza, Anthony; Stanford, Todd; Maxwell, Jeff
Subject:	RE: Foshay LC - PEA-E Comment period has ended
Date:	Thursday, April 21, 2016 8:02:33 AM

Eric, I show this entry in my Tracking Sheet for this project.

> **WEDNESDAY 3-23-16:**
> — I returned a call to Juanita Durst 925-283-0437 who left me a voice message. She was concerned for safety of her mother, who lives across the street from Foshay. Specifically, Ms. Durst pointed to the "80 tons of soil removed…" from the PEA portion of the flyer announcing the 3/29/16 community meeting and PEA Hearing. I assured her that there are no safety issues for our neighbors and that details would be provided at the meeting. She thanked me and expressed relief and said that her brother may attend the meeting.

Thanks

José De Paz
FSD-Community Relations ◊ LAUSD

From: Longenecker, Eric
Sent: Thursday, April 21, 2016 7:56 AM
To: José De Paz <jose.depaz@lausd.net>
Cc: Nehorai, Mitra <mitra.nehorai@lausd.net>; Gonzales, John <jgonzales@trcsolutions.com>; Espinoza, Anthony <anthony.espinoza@lausd.net>; Stanford, Todd <tstanford@trcsolutions.com>; Maxwell, Jeff <JMaxwell@trcsolutions.com>
Subject: Foshay LC - PEA-E Comment period has ended

Jose,

The public comment period for the Foshay LC Seismic Modernization project ended on Monday (04/18). The only questions/comments concerning the Preliminary Environmental Assessment Equivalent (PEA-E) report received by OEHS occurred during the March 29, 2016 meeting. As the contact for Community Relations did you receive any comments or questions on the PEA-E during the public comment period (03/17 to 04/18)? I need to know so OEHS may finalize the document.

Sincerely

Eric Longenecker, PE
Site Assessment Project Manager
Contract Professional
Office of Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, **21-220-02**

Los Angeles, CA 90017
V 213-241-**4263**
C 805-630-0633
Please note new telephone number and cubicle location

APPENDIX H

DATA VALIDATION

707 Wilshire Boulevard
Suite 3250
Los Angeles, CA 90017-3599

Phone: (213) 213-9400
Fax: (818) 772-1926

www.trcsolutions.com

DATA VALIDATION MEMORANDUM

TRC Project No:	231058
To:	John C. Gonzales, PE – Project Manager
From:	Berwyn Salazar, REPA - Project QA Manager
Site:	LAUSD Foshay Learning Center
Date:	July 23, 2015
Subject:	Summary of Data Validation for Advance Technology Laboratories (ATL) Job Nos. 1501131, 1501133, 1501144, 1501145, 1501179, 1501180, and 1501229

Introduction

This report summarizes the findings of an Environmental Protection Agency (EPA) Level II documentation review of analytical chemistry results of one hundred fifty five (155) soil samples and six (6) Quality Control (QC) water samples that were generated in support of the Los Angeles Unified School District (LAUSD) James A. Foshay Learning Center Preliminary Environmental Assessment (PEA). The analyses were performed by Advanced Technology Laboratories (ATL) and American Environmental Testing Laboratory (AETL). The samples and their associated analyses are listed in Table 1 included at the end of this document.

The data were reviewed in accordance with criteria specified in the Quality Assurance Project Plan (QAPP) of the PEA Work Plan for the LAUSD James A. Foshay Learning Center PEA written by TRC Solutions, Inc. (TRC) dated March 27, 2015; the United States Environmental Protection Agency (USEPA) National Functional Guidelines for Laboratory Data Review (Inorganic, EPA 2014), the United States Environmental Protection Agency (USEPA) National Functional Guidelines for Laboratory Data Review (Organic, EPA 2014), and the Department of Toxic Substances Control (DTSC) Data Validation Memorandum (Summary of Level II Data Validation, 2006). Where specific guidance is not available, the data has been reviewed consistent with industry standards using professional experience and professional judgment by the validation team.

Executive Summary

All samples were analyzed as requested. Some data were qualified by ATL and AETL; and additional qualifiers were assigned during the validation process.

Sample DUP10 was analyzed for total petroleum hydrocarbon diesel range organics (TPH-DRO) by EPA Method 8015B(M) past the technical holding time of 14-days, no qualification was necessary since the samples were received by the laboratory properly preserved on ice, and kept in refrigeration upon receipt which was before the holding time expiration (Section 4.1).

A non-project sample was used as MS/MSD sample for QC Batch B5D0010 for total petroleum hydrocarbon gasoline range organics (TPH-GRO) by EPA Method 8015B(M) while TRC specified that project specific samples should be used for MS/MSD. Consequently, site-specific matrix effects cannot be determined for the samples analyzed under this QC batch (Section 3.5).

Samples BD23-(E,S,W)-0.5, BD15-Nb-0.5, BD15-Ea-0.5, and BD15-Eb-0.5 were analyzed for organochlorine pesticides (OCPs) by EPA Method 8081 past the technical holding time of 14-days, no qualifications were necessary since the samples were received by the laboratory properly preserved on ice, and kept in refrigeration upon receipt which was before the holding time expiration (Section 5.1).

In QC Batch B5D0075 for OCPs by EPA Method 8081, the MS3/MSD3 percent recoveries for 4,4'-DDT were outside the acceptance limits. The laboratory qualified these data as "M1" (Section 1.15). The analytical results for this analyte for the affected samples are listed above and qualified as "**J**" or estimated since the MS3/MSD3 percent recoveries were significantly outside the acceptance limits (Section 5.5).

In QC Batch B5D0080 for OCPs by EPA Method 8081, the MS/MSD percent recoveries for Delta-BHC were outside the acceptance limits. The laboratory qualified these data as "M7" (Section 1.15). The analytical results for this analyte for the affected samples were Non-Detect (ND). No further qualification was necessary since the MS/MSD percent recovery were not significantly outside the acceptance limits (Section 5.5).

The laboratory qualified LCS QC Batches B5C0790, B5D0193, B5D0021, B5D0080, and B5C0810 for OCPs by EPA Method 8081

as L3; since LCS recoveries were not significantly outside the acceptance limits no further qualification was necessary (Section 5.4).

A non-project sample was used as MS/MSD sample for QC Batch B5D0488 for EPA 6010B (total lead) while TRC specified that project specific samples should be used for MS/MSD. Consequently, site-specific matrix effects cannot be determined for the samples analyzed under this QC batch (Section 6.5).

Data was qualified as "J" based on precision measurements as discussed in Field Duplicate section of EPA 6010B (total lead) (Section 6.6). The higher of the two values used for the RPD calculation should be reported.

The RPD values of spiked analyte for QC Batch 0401151C1 for arsenic by EPA 6020 was reported as 21.1 which was outside the acceptance limit of 15. No further qualification was necessary since this QC Batch was already qualified based on MS and MSD recoveries (Section 7.5).

Overall, based on the level of validation covering the quality control parameters listed below, these data are useable and acceptable for meeting project objectives.

1. Completeness of the Laboratory Reports

One hundred fifty five (155) soil samples and six (6) QC water samples were analyzed for the requested methods as listed on the chain of custodies. The laboratory reports were reviewed to evaluate compliance that the following list of information was contained within the laboratory analytical reports. The analytical report was considered complete because it contained the following information.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Environmental laboratory identification and ELAP or NELAP certification for methods analyzed.
- ☑ Case narrative with appropriate signature
- ☑ Client identification, project name or number, site identification
- ☑ Sample designation
- ☑ Sample matrix
- ☑ Analytical method and analytes
- ☑ Dates of sample collection, preservation, preparation, extraction, and analysis
- ☑ Reporting units and quantitation limits
- ☑ Dilution factors
- ☑ Report page numbering system
- ☑ Chain of custody forms
- ☑ Environmental results
- ☑ Observations regarding any occurrences which may adversely affect sample integrity or data quality
- ☑ Detailed description of all variances encountered during analysis, possible reasons, and corrective actions
- ☑ Definition of qualifiers

1.1 Environmental Laboratory Identification and Certification

All analyses with the exception of arsenic by EPA Method 6020 were performed by Advanced Technology Laboratories (ATL). Their Environmental Laboratory Accreditation Program (ELAP) certification number is 1838.

All Arsenic by EPA Method 6020 analyses were performed by American Environmental Testing Laboratory, Inc. (AETL) as a subcontract laboratory to ATL. Their ELAP certification number is 1541.

1.2 Case Narrative with Appropriate Signature

ATL case narratives were enclosed with signature of the Laboratory Director (Mr. Eddie Rodriguez). The laboratory did not indicate any problems that would have affected sample integrity and data quality.

AETL case narratives were enclosed with signature of the Laboratory Director (Dr. Cyrus Razmara). The laboratory did not indicate any problems that would have affected sample integrity and data quality.

1.3 Client Identification, Project Name, Site Identification

The following information was enclosed in the ATL reports:

Client:	TRC Solutions, Inc.
Client Project No:	231058
Site Location:	3751 S. Harvard Blvd.

1.4 Sample Designation

ATL and AETL designated a laboratory identification number to each sample and each sample collected was identified on the chain of custody. The laboratory identification numbers were used in the ATL and AETL analytical reports.

1.5 Sample Matrix

The sample matrix (soil and QC water) were identified appropriately in the analytical reports.

1.6 Analytical Method and Analytes

The analytical methods and associated analytes were identified in the analytical reports.

1.7 Dates of Sample Collection, Preservation, Preparation, Extraction, and Analysis.

All appropriate dates were enclosed in the analytical reports.

1.8 Reporting Units and Quantitation Limits

The reporting units and quantitation limits were enclosed in the analytical reports. Positive results reported in milligrams per kilogram (mg/Kg) or micrograms per kilogram (µg/Kg) for soil analyses and milligrams per liter (mg/L) or micrograms per liter (µg/L) for water analyses.

1.9 Dilution Factors

Dilution factors (DF) were enclosed in the analytical reports. All samples were analyzed with a dilution factor of one or an appropriate dilution factor, based on the concentration of the target and/or non-target analytes in the sample.

1.10 Report Page Numbering System

The total number of pages was received for all analytical reports. The Case Narrative, Analytical Sample Data, and Quality Assurance/Quality Control (QA/QC) Data of all Job Numbers were printed and paginated in sequence. However, for the AETL reports the Chain of Custody (COC), Cooler Receipt Form (CRF), and other attachments were not included in the pagination.

1.11 Chain of Custody Forms

Chain of custody forms were used to document sample collection times, preservation, and sample identification. The chain of custody documented times and date of sample custody from field to laboratory. All analyses were performed as requested on the chain of custody forms. In some instances, additional analyses were requested via email and such email requests were included in the analytical reports.

1.12 Environmental Results, Compound Identification, and Quantification

Results with associated compound identifications were enclosed in the analytical report. Qualitatively, all analytes were documented for each sample in the submitted analytical reports.

1.13 Observations Affecting Data Quality

No occurrences which might adversely affect sample integrity or data quality were noted in the analytical report narratives.

1.14 Method Variances and Corrective Action

No method variances were documented in the analytical reports.

1.15 Qualifiers

AETL Qualifier Definitions:

M Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.

MSD/MSD recovery is not within acceptable control limits.

ATL Qualifier Definitions:

H4 Change order analysis requested past the sample holding time.

R RPD value outside acceptance criteria. Calculation is based on raw value.

L3 Laboratory Control Sample (LCS) outside in-house established limits but within method criteria.

M7 Matrix spike was high biased. Sample result/s was non-detect (ND) for the target analyte; therefore reanalysis was not necessary.

M1 Matrix spike recovery outside of acceptance limit. The analytical batch was validated by the LCS.

Data Validation Qualifier Definitions

J+ The result is an estimated value (high bias) due to MS and MSD percent recovery being significantly greater than the acceptance limits.

J The result is an estimated value, since the RPD between the field sample and field duplicate sample was above 100. The higher of the two values used in the RPD calculation should be reported (Section 6.6).

J The result is estimated due to MS and MSD percent recovery being significantly outside the acceptance limit.

2. Volatile Organic Compounds (EPA 5035A/8260B)

Eight (8) soil samples were analyzed for volatile organic compounds (VOCs) by EPA method 5035A/8260B. The analytical data were reviewed to evaluate the quality of the data reported and compliance with this method. The data evaluation process did not include reviewing the raw data and instrument calibrations. The following summarizes the results of this review.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Holding times
- ☑ Preservation
- ☑ Method Blanks (MB)
- ☑ Laboratory Control Samples (LCS)
- ☒ Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)
- ☑ Surrogates (System Monitoring Compounds)
- ☑ Field Duplicates
- ☒ Trip Blanks
- ☒ Equipment Blanks

2.1 Holding Times

All samples were analyzed within the method specified holding time (14 days from sampling with proper field preservation).

2.2 Preservation

Soil samples were properly preserved (EPA 5035A preservation method for soil) and were chilled after collection as well as during transport to the laboratory. The COC specified that ice was used as a preservative for all samples.

For each sample shipment, a temperature blank and/or cooler temperature was recorded on receipt in the laboratory to be 4°C ± 2°C.

2.3 Method Blanks (MB)

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed. No target analytes were detected in the associated method blanks.

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

LCSs were prepared and analyzed for the applicable sample matrix at the proper frequency. The percent recoveries of all spiked analytes were within the laboratory's acceptance limits.

2.5 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSDs were prepared and analyzed for the applicable sample matrix at the proper frequency. Project specific samples were used for all applicable QC Batches with the exception of the QC Batches listed below. A non-project sample was used as MS/MSD sample for the QC Batches listed below. TRC specified that project specific samples should be used for MS/MSD. Consequently, site-specific matrix effects cannot be determined for the following samples:

ATL Job #	Affected Samples	QC Batch
1501144	SG-2-5, SG-2-10, SG-2-15	B5D001
1501144	SG-1-5, SG-1-10, SG-1-15	B5D0037

The percent recoveries of all spiked analytes were within the laboratory's statistically determined acceptance limits.

The RPD values of all spiked analytes were within the laboratory's statistically determined acceptance limits with the exception of the MS/MSD RPD for 1,1-Dichloroethene, Carbon Disulfide, Chloroethane, and Trichlorofluoromethane on QC Batch B5D0037 which was reported as 20.6, 23.5, 21.0, and 24.8 respectively which were outside the acceptable limit of less than 20. Both MS and MSD recoveries for all the listed analytes were with the acceptance limit therefore no qualification was necessary.

2.6 Surrogates (System Monitoring Compounds)

The surrogates utilized: 1,2-Dichloroethane-d4; 4-Bromofluorobenzene; Dibromofluoromethane; and Toluene-d8, were

appropriate for the method. All compound recoveries were within the laboratory's acceptance limits.

Surrogate recoveries were reported for all the LCS and MS/MSD samples and the LCS and MS/MSD surrogate percent recoveries were within acceptance limits.

2.7 Field Duplicates

One (1) soil Field Duplicate pair was submitted for analysis. Field soil duplicates were analyzed at a frequency rate of 14%, which is greater than the required frequency of 10%. Acceptable precision was demonstrated within a relative percent difference (RPD) of 100 or less. Precision of the soil field duplicates were determined for the following samples:

Analyte	Primary Sample	Result (µg/Kg)	Duplicate Sample	Result (µg/Kg)	RPD	Acceptance Limit	Qualifier
ALL ANALYTES	PS-1-3'	ND	DUP9	ND	-	< 100	-

µg/Kg: micrograms per kilogram

2.8 Trip Blank

No water Trip Blank was submitted to the laboratory for analysis for one (1) day of soil sampling. Trip Blank was not analyzed at the proper frequency of at least one per day of sample collection.

2.9 Equipment Blank

No Equipment Blank was submitted to the laboratory for analysis for one (1) day of sampling.

3. Total Petroleum Hydrocarbons as Gasoline Range Organics (TPH-GRO by EPA Method 5030B/5035A/EPA 8015B [M])

Seven (7) soil samples were analyzed for TPH-GRO by EPA Method 5035A/8015B(M). The analytical data were reviewed to evaluate the quality of the data reported and compliance with this method. The data evaluation process did not include reviewing the raw data and instrument calibrations. The following summarizes the results of this review.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Holding times
- ☑ Preservation
- ☑ Method Blanks (MB)
- ☑ Laboratory Control Samples (LCS)
- ☒ Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)
- ☑ Surrogates (System Monitoring Compounds)
- ☑ Field Duplicate
- ☒ Equipment Blanks

3.1 Holding Times

The soil samples were analyzed within the method specified holding times (14 days collection to extraction, 40 days extraction to analysis).

3.2 Preservation

Soil samples were properly preserved (5035A preservation method for soil) and were chilled after collection as well as during transport to the laboratory.

For each sample shipment, a temperature blank and/or cooler temperature was recorded on receipt in the laboratory to be 4°C ± 2°C.

3.3 Method Blanks (MB)

No target analytes were detected in the associated method blanks. Method blanks were analyzed at the proper frequency for the number and types of samples analyzed.

3.4 Laboratory Control Samples (LCS)

LCSs were prepared and analyzed for the applicable sample matrix at the proper frequency. The percent recoveries of all spiked analytes were within the laboratory's acceptance limits and no data were qualified.

3.5 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSDs were prepared and analyzed for the applicable sample matrix at the proper frequency. Project specific samples were used for all applicable QC Batches with the exception of QC Batch B5D0010. A non-project sample was used as MS/MSD sample while TRC specified that project specific samples should be used for MS/MSD. Consequently, site-specific matrix effects cannot be determined for the following samples:

ATL Job #	Affected Samples	QC Batch
1501144	SG-2-5, SG-2-10, SG-2-15, SG-1-5, SG-1-10, SG-1-15,	B5D0010

The percent recoveries and RPD values of spiked analytes were within the laboratory's statistically determined acceptance limits for all QC batches.

3.6 Surrogates (System Monitoring Compounds)

The surrogate utilized: 4-Bromofluorobenzene is appropriate for the method. All surrogate recoveries met laboratory acceptance limits.

Surrogate recoveries were reported for all the LCS and MS/MSD samples and the LCS and MS/MSD surrogate percent recoveries were within acceptance limits.

3.7 Field Duplicates

One (1) soil Field Duplicate pair was submitted for analysis. Field soil duplicates were analyzed at a frequency rate of 17%, which is greater than the required frequency of 10%. Acceptable precision

was demonstrated within a relative percent difference (RPD) of 100 or less. Precision of the field duplicates were determined for the following samples:

Analyte	Primary Sample	Result (mg/Kg)	Duplicate Sample	Result (mg/Kg)	RPD	Acceptance Limit	Qualifier
TPHd	SG-2-5	ND	DUP10	ND	-	< 100	-

mg/Kg: milligrams per kilogram

3.8 Equipment Blank

No Equipment Blank was submitted to the laboratory for analysis for one (1) day of sampling.

4. Total Petroleum Hydrocarbons as Diesel Range Organics (TPH-GRO by EPA Method 3550B/EPA 8015B [M])

Seven (7) soil samples were analyzed for TPH-GRO by EPA Method 3550B/8015B(M). The analytical data were reviewed to evaluate the quality of the data reported and compliance with this method. The data evaluation process did not include reviewing the raw data and instrument calibrations. The following summarizes the results of this review.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☒ Holding times
- ☑ Preservation
- ☑ Method Blanks (MB)
- ☑ Laboratory Control Samples (LCS)
- ☑ Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)
- ☑ Surrogates (System Monitoring Compounds)
- ☑ Field Duplicate
- ☒ Equipment Blanks

4.1 Holding Times

The samples were analyzed within the method specified holding times (14 days collection to extraction, 40 days extraction to analysis) with the exception of DUP10 which was analyzed past the technical holding time. No qualification was necessary since the samples were received by the laboratory properly preserved on ice, and kept in refrigeration upon receipt, prior to holding time expiration.

4.2 Preservation

All samples were properly preserved; soil and water samples were chilled after collection and during transport to the laboratory.

For each sample shipment, a temperature blank and/or cooler temperature was recorded on receipt in the laboratory to be 4°C ± 2°C.

4.3 Method Blanks (MB)

No target analytes were detected in the associated method blanks. Method blanks were analyzed at the proper frequency for the number and types of samples analyzed.

4.4 Laboratory Control Sample (LCS)

LCSs were prepared and analyzed for the applicable sample matrix at the proper frequency. The percent recoveries of all spiked analytes were within the laboratory's acceptance limits and no data were qualified.

4.5 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSDs were prepared and analyzed for the applicable sample matrix at the proper frequency. Project specific samples were used for all applicable QC Batches.

The percent recoveries and RPD values of all spiked analytes were within the laboratory's statistically determined acceptance limits.

4.6 Surrogates (System Monitoring Compounds)

The surrogate utilized: Chlorobenzene is appropriate for the method. All surrogate recoveries met laboratory acceptance limits.

Surrogate recoveries were reported for all the LCS and MS/MSD samples and the LCS and MS/MSD surrogate percent recoveries were within acceptance limits.

4.7 Field Duplicates

One (1) soil Field Duplicate pairs was submitted for analysis. Field soil duplicates were analyzed at a frequency rate of 17%, which is greater than the required frequency of 10%. Acceptable precision was demonstrated within a relative percent difference (RPD) of 100 or less. Precision of the field duplicates were determined for the following samples:

Analyte	Primary Sample	Result (mg/Kg)	Duplicate Sample	Result (mg/Kg)	RPD	Acceptance Limit	Qualifier
TPHd	SG-2-5	ND	DUP10	ND	-	< 100	-

mg/Kg: milligrams per kilogram

4.8 Equipment Blank

No Equipment Blank was submitted to the laboratory for analysis for one (1) day of sampling.

5. Organochlorine Pesticides (OCPs) (EPA 3550B/ EPA 8081A)

Twenty two (22) soil samples and four (4) QC water samples were analyzed for OCPs (EPA Method 3550B/8081A). The analytical data were reviewed to evaluate the quality of the data reported and compliance with this method. The data evaluation process did not include reviewing the raw data and instrument calibrations. The following summarizes the results of this review.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☒ Holding times
- ☑ Preservation
- ☑ Method Blanks (MB)
- ☒ Laboratory Control Samples (LCS)
- ☒ Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)
- ☑ Surrogates (System Monitoring Compounds)
- ☑ Field Duplicates
- ☒ Equipment Blank

5.1 Holding Times

The soil samples were analyzed within the method specified holding times (14 days collection to extraction, 40 days extraction to analysis) with the exception of samples BD23-(E,S,W)-0.5, BD15-Nb-0.5, BD15-Ea-0.5, and BD15-Eb-0.5 that were analyzed past the technical holding time of 14-days, no qualifications were necessary since the samples were received by the laboratory properly preserved on ice, and kept in refrigeration upon receipt which was before the holding time expiration.

5.2 Preservation

All samples were properly preserved, soil and QC water samples were chilled after collection and during transport to the laboratory. All samples were refrigerated upon receipt at the laboratory.

For each sample shipment, the temperature was reported on the Cooler Receipt Form to be 4°C ± 2°C.

5.3 Method Blanks (MB)

No target analytes were detected in the associated method blanks. Method blanks were analyzed at the proper frequency for the number and types of samples analyzed.

5.4 Laboratory Control Samples (LCS)

LCSs were prepared and analyzed for the applicable sample matrix at the proper frequency. The percent recoveries of all spiked analytes were within the laboratory's acceptance limits with the exception of the following QC Batches.

ATL Job #	QC Batch	Analyte	LCS/LCSD %Recovery	LCS/LCSD Acceptance Limits	Affected Samples	Qualifier
1501133	B5C0790	Delta-BHC	**83.8/84.1**	12-80	Eq Blank (03/29)	None
		Delta-BHC[2C]	**89.5/89.8**	12-80		
		Endosulfan Sulfate	**98.8/98.9**	54-95		
		Endosulfan Sulfate[2C]	**97.8/98.1**	54-95		

The laboratory have qualified the above data as L3, and the reported LCS/LCSD recoveries were not significantly outside the acceptance limits therefore no further qualification is necessary.

ATL Job #	QC Batch	Analyte	LCS/LCSD %Recovery	LCS/LCSD Acceptance Limits	Affected Samples	Qualifier
1501145	B5C0790	Delta-BHC	**83.8/84.1**	12-80	Eq Blank (03/30)	None
		Delta-BHC[2C]	**89.5/89.8**	12-80		
		Endosulfan Sulfate	**98.8/98.9**	54-95		
		Endosulfan Sulfate[2C]	**97.8/98.1**	54-95		

The laboratory have qualified the above data as L3, and the reported LCS/LCSD recoveries were not significantly outside the acceptance limits therefore no further qualification is necessary.

ATL Job #	QC Batch	Analyte	LCS/LCSD %Recovery	LCS/LCSD Acceptance Limits	Affected Samples	Qualifier
1501131	B5C0790	Delta-BHC	**83.8/84.1**	12-80	Eq Blank (03/28)	None
		Delta-BHC[2C]	**89.5/89.8**	12-80		
		Endosulfan Sulfate	**98.8/98.9**	54-95		
		Endosulfan Sulfate[2C]	**97.8/98.1**	54-95		

The laboratory have qualified the above data as L3, and the reported LCS/LCSD recoveries were not significantly outside the acceptance limits therefore no further qualification is necessary.

ATL Job #	QC Batch	Analyte	LCS %Recovery	LCS Acceptance Limits	Affected Samples	Qualifier
1501179	B5D0193	Alpha-BHC[2C]	**84.8**	58-84	BD15(Na,Wa,Wb)-0.5, BD15(Nb,Ea,Eb)-0.5, BD1(N,S,W,E)-0.5, BD2(N,S,W,E)-0.5, BD25(N,S,W0.5, BD3(N,S)-0.5, BD4(N,S,W,E)-0.5, BD27(N,W,E)-0.5,	None
		Delta-BHC	**82.4**	18-75		
		Delta-BHC[2C]	**88.3**	18-75		
		Endosulfan Sulfate	**97.4**	59-89		
		Endosulfan Sulfate[2C]	**97.4**	58-89		

The laboratory have qualified the above data as L3, and the reported LCS recoveries were not significantly outside the acceptance limits therefore no further qualification is necessary.

ATL Job #	QC Batch	Analyte	LCS %Recovery	LCS Acceptance Limits	Affected Samples	Qualifier
1501144	B5D0021	Delta-BHC	**81.1**	18-75	BD21-(N,E,S,W)-0.5	None
		Endosulfan Sulfate	**93.8**	59-89		

The laboratory have qualified the above data as L3, and the reported LCS recoveries were not significantly outside the acceptance limits therefore no further qualification is necessary.

ATL Job #	QC Batch	Analyte	LCS %Recovery	LCS Acceptance Limits	Affected Samples	Qualifier
1501180	B5D0080	Delta-BHC	**80.0**	18-75	BD26-(N,E,S)-0.5	None
		Endosulfan Sulfate	**89.3**	59-89		

The laboratory have qualified the above data as L3, and the reported LCS recoveries were not significantly outside the acceptance limits therefore no further qualification is necessary.

ATL Job #	QC Batch	Analyte	LCS %Recovery	LCS Acceptance Limits	Affected Samples	Qualifier
1501131	B5C0810	4,4'-DDE[2C]	**99.2**	65-99	B1-0.5, B5-0.5	None
		Aldrin[2C]	**96.1**	57-94		
		Alpha-BHC	**86.1**	58-84		
		Alpha-BHC[2C]	**89.3**	58-84		
		Alpha-Chlordane[2C]	**96.1**	58-96		
		Delta-BHC	**88.4**	18-75		
		Delta-BHC[2C]	**93.9**	18-75		
		Endosulfan Sulfate	**103**	59-89		
		Endosulfan Sulfate[2C]	**102**	59-89		
		Gamma-BHC[2C]	**92.0**	63-89		
		Gamma-Chlordane[2C]	**95.2**	61-95		

The laboratory have qualified the above data as L3, and the reported LCS recoveries were not significantly outside the acceptance limits therefore no further qualification is necessary.

5.5 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSDs were prepared and analyzed for the applicable sample matrix at the proper frequency. Project specific samples were used for all the applicable QC Batches.

The percent recoveries of spiked analytes were within the laboratory's statistically determined acceptance limits for all samples with the exception of those listed below:

ATL Job #	QC Batch	Analyte	MS/MSD %Recovery *	MS/MSD Acceptance Limits	Affected Samples	Qualifier
1501180	B5D0080	Delta-BHC	**78.6/ 82.2**	8-78	BD26-(N,E,S)-0.5	None

*Bold values are outside the acceptance limits

In QC Batch B5D0080 listed above, the spiked sample was BD26-(N,E,S)-0.5. The MS/MSD percent recoveries for Delta-BHC were outside the acceptance limits. The laboratory qualified these data as "M7" (Section 1.15). The analytical results for this analyte for the affected samples were Non-Detect (ND). No further qualification was necessary since the MS/MSD percent recovery were not significantly outside the acceptance limits.

ATL Job #	QC Batch	Analyte	MS3/MSD3 %Recovery*	MS/MSD Acceptance Limits	Affected Samples	Results	Qualifier
1501179	B5D0075	4,4'-DDT	**-19.7/-6.03 -14.6/-4.68 [2C]**	8-78	BD15-Nb-0.5	33	**J**
1501180					BD15-Ea-0.5	5.7	**J**
1501180					BD15-Eb-0.5	ND	**J**

*Bold values are outside the acceptance limits

In QC Batch B5D0075 listed above, the spiked sample was BD15-Nb-0.5. The MS3/MSD3 percent recoveries for 4,4'-DDT were outside the acceptance limits. The laboratory qualified these data as "M1" (Section 1.15). The analytical results for this analyte for the affected samples are listed above and qualified as "**J**" or estimated since the MS3/MSD3 percent recoveries were significantly outside the acceptance limits.

The RPDs of spiked analytes were within the laboratory's statistically determined acceptance limits for all QC Batches.

5.6 Surrogates (System Monitoring Compounds)

The surrogates utilized: Decachlorobiphenyl and Tetrachloro-m-xylene are appropriate for the method. All surrogate recoveries met laboratory acceptance limits.

Surrogate recoveries were reported for the LCS and MS/MSD samples and the LCS and MS/MSD surrogate percent recoveries were within acceptance limits.

5.7 Field Duplicates

Two (2) Soil Field Duplicate pair were submitted for analysis. Field soil duplicates were analyzed at a frequency rate of 10%, which is equal to the required frequency of 10%. Acceptable precision was demonstrated within a relative percent difference (RPD) of 100 or less. Precision of the field duplicates were determined for the following samples:

Analyte	Primary Sample	Result (µg/Kg)	Duplicate Sample	Result (µg/Kg)	RPD	Acceptance Limit	Qualifier
ALL ANALYTES	F1-0.5	ND	DUP1-0.5	ND	-	< 100	-
ALL ANALYTES	F5-0.5	ND	DUP2-0.5	ND	-	< 100	-

µg/Kg: micrograms per kilogram

5.8 Equipment Blank

Four (4) Equipment Blanks were submitted to the laboratory for analysis for five (5) days of sampling. There was no equipment blank submitted for analysis on March 30, 2015.

No target analytes were detected in the associated equipment blank that was submitted for analysis.

6. Metals, Total: Lead (Pb) (EPA 6010B)

Sixty four (64) soil samples and six (6) QC water samples were analyzed for total lead (Pb) by EPA Method 6010B. The analytical data were reviewed to evaluate the quality of the data reported and compliance with this method. The data evaluation process did not include reviewing the raw data and instrument calibrations. The following summarizes the results of this review.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Holding times
- ☑ Preservation
- ☑ Method Blanks (MB)
- ☑ Laboratory Control Samples (LCS)
- ☒ Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)
- ☒ Field Duplicate
- ☒ Equipment Blank

6.1 Holding Times

All samples were analyzed within the method specified holding time (6 months).

6.2 Preservation

All samples were properly preserved; soil and QC water samples were chilled after collection and during transport to the laboratory.

For each sample shipment, a temperature blank was recorded on receipt in the laboratory to be 4°C ± 2°C.

6.3 Method Blanks (MB)

A method blank was analyzed at the proper frequency for the number and types of sample analyzed. No target analytes were detected in the associated method blank.

6.4 Laboratory Control Samples (LCS)

LCSs were prepared and analyzed for the applicable sample matrix at the proper frequency. The percent recoveries of all spiked analytes were within the laboratory's acceptance limits and no data were qualified.

6.5 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSDs were prepared and analyzed for the applicable sample matrix at the proper frequency. Project specific samples were used for all applicable QC Batches with the exception of the QC Batch listed below where a non-project sample was used as MS/MSD sample. TRC specified that project specific samples should be used for MS/MSD. Consequently, site-specific matrix effects cannot be determined for the following samples:

ATL Job #	Affected Samples	QC Batch
1501229	BD15-EbN-1, BD15-EbE-1, BD15-EbS-1,	B5D0488

The percent recoveries and RPDs of all spiked samples were within the laboratory's statistically determined acceptance limits.

6.6 Field Duplicates

Seven (7) soil Field Duplicate pairs were submitted for analysis. Field soil duplicates were analyzed at a frequency rate of 12%, which is greater than the required frequency of 10%. Acceptable precision was demonstrated within a relative percent difference (RPD) of 100 or less with the exception of the results that were qualified as "**J**", an estimated value, since the RPD was above 100. The higher of the two values used for the RPD calculation should be reported. Precision of the field duplicates were determined for the following samples:

Analyte	Primary Sample	Result (mg/Kg)	Duplicate Sample	Result (mg/Kg)	RPD	Acceptance Limit	Qualifier
Lead	F1-0.5	9.2	DUP1-0.5	14	41	< 100	
Lead	F5-0.5	14	DUP2-0.5	18	25	< 100	
Lead	BD23-E-0.5	9.8	Dup4-0.5	8.5	14	< 100	-
Lead	BD24-S-0.5	17	DUP5	5.3	**105**	< 100	**J**
Lead	BD1-S-0.5	6.9	DUP-11	8.10	16	< 100	-
Lead	BD25-W-0.5	4.0	DUP-12	3.60	11	< 100	-
Lead	BD6-S0.5	3.4	DUP-13	5.50	47	< 100	-

mg/Kg: milligrams per kilogram

6.8 Equipment Blank

Six (6) Equipment Blanks were submitted to the laboratory for analysis for six (6) days of sampling. No target analytes were detected in the associated equipment blank that was submitted for analysis.

7. Metals, Total: Arsenic (As) (EPA 6020)

Eighty nine (89) soil and six (6) QC water samples were analyzed for total arsenic by EPA method 6020. The analytical data were reviewed to evaluate the quality of the data reported and compliance with this method. The data evaluation process did not include reviewing the raw data and instrument calibrations. The following summarizes the results of this review.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Holding times
- ☑ Preservation
- ☑ Method Blanks (MB)
- ☑ Laboratory Control Samples (LCS)
- ☒ Matrix Spike/Matrix Spike Duplicate Samples (MS/MSD)
- ☑ Field Duplicate
- ☑ Equipment Blank

7.1 Holding Times

All samples were analyzed within the method specified holding time (6 months).

7.2 Preservation

All samples were properly preserved; soil and QC water samples were chilled after collection and during transport to the laboratory.

For each sample shipment, a temperature blank and/or cooler temperature was recorded on receipt in the laboratory to be 4°C ± 2°C.

7.3 Method Blanks (MB)

No target analyte was detected in the associated method blanks. Method blanks were analyzed at the proper frequency for the number and types of samples analyzed.

7.4 Laboratory Control Samples (LCS)

LCSs were prepared and analyzed for the applicable sample matrix at the proper frequency. The percent recoveries of all spiked analytes were within the laboratory's acceptance limits and no data were qualified.

7.5 Matrix Spike/Matrix Spike Duplicates (MS/MSD)

MS/MSDs were prepared and analyzed for the applicable sample matrix at the proper frequency. Project specific samples were used for all the applicable QC Batches.

The percent recoveries of spiked analytes were outside the laboratory's statistically determined acceptance limits for QC Batches listed below:

QC Batch	MS/MSD %Recovery*	MS/MSD Acceptance Limits	Affected Samples	Qualifier
0401151C1	**225/182**	80-120	SG-1-0.5, SG-2-0.5,E7-0.5, G5-0.5, G6-0.5, G7-0.5, G8-0.5, G9-0.5, H8-0.5, H9-0.5, I7-0.5, I8-0.5, BD6-S0.5, BD6-E0.5, BD7-E0.5	**J+**

*Bold values are outside the acceptance limits

In QC Batch 0401151C1 listed above the laboratory qualified the MS/MSD data as "M" (Section 1.15). All results were positive for the above samples and were therefore qualified as "**J+**" (Section 1.15) during the validation process since the MS and MSD percent recoveries were significantly outside the acceptance limits.

QC Batch	MS/MSD %Recovery*	MS/MSD Acceptance Limits	Affected Samples	Qualifier
0331151C2	**67**/76	75-125	D5-0.5, D6-0.5, D7-0.5, E1-0.5, E2-0.5, E3-0.5, E4-0.5, E5-0.5, E6-0.5, F1-0.5, F2-0.5, F3-0.5, F4-0.5, DUP1-0.5, DUD2-0.5	None

*Bold values are outside the acceptance limits

In QC Batch 0331151C2 listed above the laboratory qualified the MS data as "M" (Section 1.15). All results were positive for the above samples and was note qualified during the validation process since the MS percent recovery was not significantly outside the acceptance limits.

QC Batch	MS/MSD %Recovery*	MS/MSD Acceptance Limits	Affected Samples	Qualifier
0331151C4	**63/69**	75-125	C1-0.5, C2-0.5, C3-0.5, C4-0.5, C5-0.5, C6-0.5, C7-0.5, A2-0.5, D1-0.5, D2-0.5, D3-0.5, D4-0.5	None

*Bold values are outside the acceptance limits

In QC Batch 0331151C4 listed above the laboratory qualified the MS/MSD data as "M" (Section 1.15). All results were positive for the above samples and no further qualification was necessary during the validation process since the MS and MSD percent recoveries were not significantly outside the acceptance limits.

The RPD values of spiked analyte for QC Batch 0401151C1 was reported as 21.1 which was outside the acceptance limit of 15. No further qualification was necessary since this QC Batch was already qualified based on MS and MSD recoveries as listed above.

7.6 Field Duplicates

Nine (9) soil field duplicate pairs were submitted for analysis. Field soil duplicates were analyzed at a frequency rate of 11%, which is greater than the required frequency of 10%. Acceptable precision was demonstrated within a relative percent difference (RPD) of 100 or less for the following samples:

Analyte	Primary Sample	Result (mg/Kg)	Duplicate Sample	Result (mg/Kg)	RPD	Acceptance Limit	Qualifier
Arsenic	F1-0.5	1.91	DUP1-0.5	1.73	10	< 100	-
Arsenic	F5-0.5	2.30	DUP2-0.5	2.57	11	< 100	-
Arsenic	G3-0.5	2.94	DUP3-0.5	3.36	13	< 100	-
Arsenic	BD26-E-0.5	1.97	Dup 6	1.92	3	< 100	-
Arsenic	D9-0.5	4.25	Dup 7	11.9	95	< 100	-
Arsenic	PS-1-0.5	2.31	Dup 8	2.19	5	< 100	-
Arsenic	BD1-S-0.5	3.11	DUP-11	2.38	27	< 100	-
Arsenic	BD25-W-0.5	6.86	DUP-12	3.64	61	< 100	-
Arsenic	BD6-S0.5	1.94	DUP-13	1.80	7	< 100	-

mg/Kg: milligrams per kilogram

7.8 Equipment Blank

Six (6) Equipment Blanks were submitted to the laboratory for analysis for six (6) days of sampling. No target analytes were detected in the associated equipment blank that was submitted for analysis.

Review of Data Quality Objectives (DQOs)

The project DQOs were evaluated to determine whether the quantitative and qualitative needs of the sampling and analysis program had been met. DQOs were specified in terms of specific data quality indicators (DQIs), i.e., precision, accuracy, representativeness, completeness, comparability, and RLs. The data generated from the investigation may not be considered invalid if the DQOs or criteria are not fully achieved. However, if necessary, variances will trigger the appropriate quality assurance/quality control (QA/QC) measures needed to evaluate and correct these activities.

Quality DQIs: Qualitative DQIs are comparability and representativeness.

- **Comparability:** Comparability expresses the confidence with which one data set can be compared to another. ATL used the following specified methods:

  EPA 8260B (VOCs)
  EPA 8015B(M) (TPH GRO/DRO)
  EPA 8081A (OCPs)
  EPA 6010B (Total Lead)

  AETL used the following specified method:

  EPA 6020 (Total Arsenic by ICP/MS)

  All methods are consistent with the current standards of practice as approved by EPA and DTSC. The method specified in the QAPP allows the data to be evaluated for trends or changes (in space or time) at the Site. All data were calculated in units (mg/kg) or micrograms per kilogram (µg/kg) for soil analyses; and milligrams per liter (mg/L) or micrograms per liter (µg/L) for water analyses; consistent with standard procedures so that the results of the analyses can be compared with those of other laboratories, if necessary. The DQO for comparability has been met.

- **Representativeness:** Representativeness is the degree to which data accurately and precisely represent the actual Site conditions (in terms of a population, parameter variations at a sampling point, process condition, or environmental condition). To address representativeness, sufficient and proper number and locations of samples were collected; incorporating appropriate sampling methodologies; specifying and performing proper sample collection and preservation techniques; selecting appropriate methods to prepare and analyze all samples; and establishing proper field and

laboratory QA/QC procedures for the parameters of interest. Samples were collected and analyzed in accordance with the QAPP.

The DQO for representativeness has been met.

Quantitative DQIs: Quantitative DQIs are precision and accuracy, completeness, and Reporting Limits (RL). Precision and accuracy objectives, based on statistically generated limits established by AETL, were viewed as goals, not as criteria. If matrix bias is suspected, the associated data will be qualified and the direction of the bias indicated in the data validation report. The results for field duplicates indicated appropriate sample collection and handling procedures.

- **Precision:** Precision measures the reproducibility of repetitive measurements by assessing the RPD between field and field duplicate, and MS/MSD analyses. If the RPD exceeds 100%, for field duplicates, as set by the project specific QAPP, or analyte specific ranges as set by the laboratory for MS/MSD, data may be qualified. MS/MSD pairs were prepared and analyzed for the applicable sample matrix at the proper frequency. Field Duplicate pairs were prepared and analyzed for the applicable sample matrix at the proper frequency of 10% or greater.

  Data was qualified as "J" based on precision measurements as discussed in Field Duplicate section of EPA 6010B (Total Lead) (Section 6.6). The higher of the two values used for the RPD calculation should be reported.

  The RPD values of spiked analyte for QC Batch 0401151C1 for Arsenic by EPA 6020 was reported as 21.1 which was outside the acceptance limit of 15. No further qualification was necessary since this QC Batch was already qualified based on MS and MSD recoveries (Section 7.5).

  Some data were qualified based on precision as discussed above but none was rejected therefore, the DQO for precision has been met.

- **Accuracy:** Accuracy is a statistical measurement (the degree of agreement of a measurement with a known or true value) of correctness and includes components of random error (variability due to imprecision) and systematic error. Laboratory accuracy is expressed as the % recovery by assessing surrogate, LCS, MS, and MSD (analyte specific acceptance ranges).

  In QC Batch B5D0075 for OCPs by EPA Method 8081, the MS3/MSD3 percent recoveries for 4,4'-DDT were outside the

acceptance limits. The laboratory qualified these data as "M1" (Section 1.15). The analytical results for this analyte for the affected samples are listed above and qualified as "**J**" or estimated since the MS3/MSD3 percent recoveries were significantly outside the acceptance limits (Section 5.5).

In QC Batch B5D0080 for OCPs by EPA Method 8081, the MS/MSD percent recoveries for Delta-BHC were outside the acceptance limits. The laboratory qualified these data as "M7" (Section 1.15). The analytical results for this analyte for the affected samples were Non-Detect (ND). No further qualification was necessary since the MS/MSD percent recovery were not significantly outside the acceptance limits (Section 5.5).

A non-project sample was used as MS/MSD sample for QC Batch B5D0010 for Total Petroleum Hydrocarbon Gasoline Range Organics (TPH-GRO) by EPA Method 8015B(M) while TRC specified that project specific samples should be used for MS/MSD. Consequently, site-specific matrix effects cannot be determined for the samples analyzed under this QC batch (Section 3.5).

The laboratory qualified LCS QC Batches B5C0790, B5D0193, B5D0021, B5D0080, and B5C0810 for OCPs by EPA Method 8081 as L3; since LCS recoveries were not significantly outside the acceptance limits no further qualification was necessary (Section 5.4).

A non-project sample was used as MS/MSD sample for QC Batch B5D0488 for EPA 6010B (Total Lead) while TRC specified that project specific samples should be used for MS/MSD. Consequently, site-specific matrix effects cannot be determined for the samples analyzed under this QC batch (Section 6.5).

Some data were qualified based on accuracy as described above but none was rejected. Therefore, the DQO for accuracy has been met.

- **Completeness:** Completeness is the amount of valid data obtained compared to the amount expected under ideal conditions. The DQO for completeness is to obtain valid results for at least 90% of the planned data results. Completeness may be affected by such factors as sample container leakage and acceptance/non-acceptance of analytical results. The analytical data for the samples are 100% complete and therefore the DQO for completeness has been met.

- **Reporting Limits (RLs):** ATL and AETL reported their data using RLs that meet the objectives of having sufficient quality data to perform a human health risk evaluation.

Overall Assessment of Data

Based on this Level II validation, all data collected through implementation of the QAPP satisfies the data quality requirements specified for the project. The analyses followed the approved method and included acceptable QC procedures. The relevant QA/QC results were satisfactory and acceptable. The entire data package was reviewed. The data is acceptable based on compliance of quality control procedures and data reported. Overall, the presented data are reliable and useable for project decision making.

Table 1				
Client Sample ID	Matrix	Lab Sample ID	Date Sampled	Analyses Performed
BD7-E0.5	SOIL	1501145-69	3/30/2015	6010B(Pb), 6020 (As)
BD7-(N,E,S,W)-0.5	SOIL	1501145-87	3/30/2015	8081(OCP)
A1-0.5	SOIL	1501131-01	3/28/2015	6020 (As)
B1-0.5	SOIL	1501131-07	3/28/2015	6010B(Pb), 8081(OCP), 6020 (As)
B2-0.5	SOIL	1501131-13	3/28/2015	6020 (As)
B3-0.5	SOIL	1501131-19	3/28/2015	6020 (As)
B3-1	SOIL	1501131-20	3/28/2015	6020 (As)
B4-0.5	SOIL	1501131-25	3/28/2015	6020 (As)
B5-0.5	SOIL	1501131-31	3/28/2015	6010B(Pb), 8081(OCP), 6020 (As)
B6-0.5	SOIL	1501131-37	3/28/2015	6020 (As)
B7-0.5	SOIL	1501131-43	3/28/2015	6020 (As)
C1-0.5	SOIL	1501131-49	3/28/2015	6020 (As)
C2-0.5	SOIL	1501131-55	3/28/2015	6020 (As)
C3-0.5	SOIL	1501131-61	3/28/2015	6020 (As)
C4-0.5	SOIL	1501131-67	3/28/2015	6020 (As)
C5-0.5	SOIL	1501131-73	3/28/2015	6020 (As)
C6-0.5	SOIL	1501131-79	3/28/2015	6020 (As)
C7-0.5	SOIL	1501131-85	3/28/2015	6020 (As)
A2-0.5	SOIL	1501131-91	3/28/2015	6020 (As)
A2-1	SOIL	1501131-92	3/28/2015	6020 (As)
D1-0.5	SOIL	1501131-97	3/28/2015	6020 (As)
D2-0.5	SOIL	1501131-AD	3/28/2015	6020 (As)
D3-0.5	SOIL	1501131-AJ	3/28/2015	6020 (As)
D4-0.5	SOIL	1501131-AP	3/28/2015	6020 (As)
EQ Blank	WATER	1501131-AV	3/28/2015	6010B(Pb), 8081(OCP), 6010B(Pb)
D5-0.5	SOIL	1501133-01	3/29/2015	6020 (As)
D6-0.5	SOIL	1501133-07	3/29/2015	6020 (As)
D7-0.5	SOIL	1501133-13	3/29/2015	6020 (As)
E1-0.5	SOIL	1501133-19	3/29/2015	6020 (As)
E2-0.5	SOIL	1501133-25	3/29/2015	6020 (As)
E3-0.5	SOIL	1501133-31	3/29/2015	6020 (As)
E4-0.5	SOIL	1501133-37	3/29/2015	6020 (As)
E5-0.5	SOIL	1501133-43	3/29/2015	6020 (As)
E6-0.5	SOIL	1501133-49	3/29/2015	6020 (As)
E7-0.5	SOIL	1501133-55	3/29/2015	6010B(Pb), 6020 (As)
DUP1-0.5	SOIL	1501133-61	3/29/2015	6010B(Pb), 8081(OCP), 6010B(Pb)
F1-0.5	SOIL	1501133-62	3/29/2015	6010B(Pb), 8081(OCP), 6010B(Pb)
F2-.05	SOIL	1501133-68	3/29/2015	6020 (As)
F2-1	SOIL	1501133-69	3/29/2015	6020 (As)
F2-1.5	SOIL	1501133-70	3/29/2015	6020 (As)
F3-0.5	SOIL	1501133-74	3/29/2015	6020 (As)
F4-0.5	SOIL	1501133-80	3/29/2015	6020 (As)
DUP2-0.5	SOIL	1501133-86	3/29/2015	6010B(Pb), 8081(OCP), 6010B(Pb)

Client Sample ID	Matrix	Lab Sample ID	Date Sampled	Analyses Performed
F5-0.5	SOIL	1501133-87	3/29/2015	6010B(Pb), 8081(OCP), 6010B(Pb)
F6-0.5	SOIL	1501133-93	3/29/2015	6020 (As)
F7-0.5	SOIL	1501133-99	3/29/2015	6020 (As)
G2-0.5	SOIL	1501133-AF	3/29/2015	6020 (As)
G3-0.5	SOIL	1501133-AL	3/29/2015	6020 (As)
G4-0.5	SOIL	1501133-AR	3/29/2015	6020 (As)
DUP3-0.5	SOIL	1501133-AX	3/29/2015	6020 (As)
EQ BLANK	WATER	1501133-AY	3/29/2015	6010B(Pb), 8081(OCP), 6010B(Pb)
G5-0.5	SOIL	1501133-AZ	3/29/2015	6020 (As)
SG-2-5'	SOIL	1501144-04	3/31/2015	8015B(M)(TPH-G/D),8260B(VOCS)
SG-2-10'	SOIL	1501144-05	3/31/2015	8015B(M)(TPH-G/D),8260B(VOCS)
SG-2-15'	SOIL	1501144-06	3/31/2015	8015B(M)(TPH-G/D),8260B(VOCS)
SG-1-10'	SOIL	1501144-07	3/31/2015	8015B(M)(TPH-G/D),8260B(VOCS)
SG-1-15'	SOIL	1501144-08	3/31/2015	8015B(M)(TPH-G/D),8260B(VOCS)
SG-1-0.5	SOIL	1501144-09	3/31/2015	6020 (As)
SG-1-5'	SOIL	1501144-15	3/31/2015	8015B(M)(TPH-G/D),8260B(VOCS)
SG-2-0.5	SOIL	1501144-16	3/31/2015	6020 (As)
BD24-N0.5	SOIL	1501144-25	3/31/2015	6010B(Pb)
BD23-E0.5	SOIL	1501144-29	3/31/2015	6010B(Pb), 6020 (As)
BD23-S0.5	SOIL	1501144-35	3/31/2015	6010B(Pb)
BD23-S2.5	SOIL	1501144-39	3/31/2015	6010B(Pb)
DUP4-0.5	SOIL	1501144-41	3/31/2015	6010B(Pb)
BD24-S0.5	SOIL	1501144-42	3/31/2015	6010B(Pb)
BD24-W0.5	SOIL	1501144-48	3/31/2015	6010B(Pb)
BD24-E0.5	SOIL	1501144-54	3/31/2015	6010B(Pb)
BD24-(N,E,S,W)-0.5	SOIL	1501144-58	3/31/2015	8081(OCP)
DUP5	SOIL	1501144-59	3/31/2015	6010B(Pb)
DUP10	SOIL	1501144-62	3/31/2015	8015B(M)(TPH-G/D)
BD23-(E,S,W)-0.5	SOIL	1501144-63	3/31/2015	8081(OCP)
G6-0.5	SOIL	1501145-01	3/30/2015	6020 (As)
G7-0.5	SOIL	1501145-07	3/30/2015	6020 (As)
G8-0.5	SOIL	1501145-13	3/30/2015	6020 (As)
G9-0.5	SOIL	1501145-19	3/30/2015	6020 (As)
H8-0.5	SOIL	1501145-25	3/30/2015	6020 (As)
H9-0.5	SOIL	1501145-31	3/30/2015	6020 (As)
I7-0.5	SOIL	1501145-32	3/30/2015	6020 (As)
I8-0.5	SOIL	1501145-38	3/30/2015	6020 (As)
BD6-N0.5	SOIL	1501145-44	3/30/2015	6010B(Pb)
BD6-S0.5	SOIL	1501145-50	3/30/2015	6010B(Pb), 6020 (As)
BD6-E0.5	SOIL	1501145-56	3/30/2015	6010B(Pb), 6020 (As)
BD6-E1	SOIL	1501145-57	3/30/2015	6020 (As)
BD6-(N,E,S)-0.5	SOIL	1501145-62	3/30/2015	8081(OCP)
BD7-N0.5	SOIL	1501145-63	3/30/2015	6010B(Pb)
BD7-S0.5	SOIL	1501145-75	3/30/2015	6010B(Pb)

Client Sample ID	Matrix	Lab Sample ID	Date Sampled	Analyses Performed
BD7-W0.5	SOIL	1501145-81	3/30/2015	6010B(Pb)
EQ Blank	Water	1501145-88	3/30/2015	6010B(Pb), 6020 (As)
DUP-13	SOIL	1501145-89	3/30/2015	6010B(Pb), 6020 (As)
BD15-Wa-0.5	SOIL	1501179-04	4/1/2015	6010B(Pb), STLC(Pb)
BD15-Wa-1	SOIL	1501179-05	4/1/2015	6010B(Pb)
BD15-Na-0.5	SOIL	1501179-10	4/1/2015	6010B(Pb)
BD3-N-0.5	SOIL	1501179-15	4/1/2015	6010B(Pb)
BD15(Na,Wa,Wb)-0.5	SOIL	1501179-22	4/1/2015	8081(OCP)
BD15(Nb,Ea,Eb)-0.5	SOIL	1501179-23	4/1/2015	8081(OCP)
BD1-S-0.5	SOIL	1501179-24	4/1/2015	6010B(Pb), 6020 (As)
BD1(N,S,W,E)-0.5	SOIL	1501179-30	4/1/2015	8081(OCP)
BD2(N,S,W,E)-0.5	SOIL	1501179-31	4/1/2015	8081(OCP)
BD25(N,S,W)-0.5	SOIL	1501179-32	4/1/2015	8081(OCP)
BD3-S-0.5	SOIL	1501179-33	4/1/2015	6010B(Pb)
BD3(N,S)-0.5	SOIL	1501179-39	4/1/2015	8081(OCP)
BD4(N,S,W,E)-0.5	SOIL	1501179-40	4/1/2015	8081(OCP)
BD27(N,W,E)-0.5	SOIL	1501179-41	4/1/2015	8081(OCP)
CY-S-0.5	SOIL	1501179-42	4/1/2015	6020 (As)
CY-N-0.5	SOIL	1501179-48	4/1/2015	6020 (As)
BD15-Wb-0.5	SOIL	1501179-49	4/1/2015	6010B(Pb)
BD1-N-0.5	SOIL	1501179-54	4/1/2015	6010B(Pb)
BD2-N-0.5	SOIL	1501179-60	4/1/2015	6010B(Pb)
BD15-Nb-0.5	SOIL	1501179-67	4/1/2015	6010B(Pb), 8081(OCP)
BD25-W-0.5	SOIL	1501179-72	4/1/2015	6010B(Pb), 6020 (As)
BD1-W-0.5	SOIL	1501179-78	4/1/2015	6010B(Pb)
DUP8	SOIL	1501179-82	4/1/2015	6020 (As)
DUP-11	SOIL	1501179-84	4/1/2015	6010B(Pb), 6020 (As)
DUP-12	SOIL	1501179-85	4/1/2015	6010B(Pb), 6020 (As)
BD2-S-0.5	SOIL	1501180-01	3/31/2015	6010B(Pb)
BD26-E-0.5	SOIL	1501180-07	3/31/2015	6020 (As)
BD26-S-0.5	SOIL	1501180-13	3/31/2015	6010B(Pb), 6020 (As)
BF26-(N,E,S)-0.5	SOIL	1501180-19	3/31/2015	8081(OCP)
BD25-N-0.5	SOIL	1501180-20	3/31/2015	6010B(Pb), 6020 (As)
BD25-S-0.5	SOIL	1501180-26	3/31/2015	6010B(Pb)
DUP6	SOIL	1501180-32	3/31/2015	6020 (As)
EQ BLANK	WATER	1501180-33	3/31/2015	6010B(Pb), 8081(OCP), 6020(As)
BD23-W-0.5	SOIL	1501180-34	3/31/2015	6010B(Pb)

Client Sample ID	Matrix	Lab Sample ID	Date Sampled	Analyses Performed
BD2-E-0.5	SOIL	1501180-40	4/1/2015	6010B(Pb)
BD1-E-0.5	SOIL	1501180-46	4/1/2015	6010B(Pb)
BD26-N-0.5	SOIL	1501180-52	4/1/2015	6010B(Pb)
BD2-W-0.5	SOIL	1501180-58	4/1/2015	6010B(Pb)
A9-0.5	SOIL	1501180-64	4/1/2015	6020 (As)
BD4-N-0.5	SOIL	1501180-70	4/1/2015	6010B(Pb), STLC(Pb), TCLP(Pb)
BD4-N-1	SOIL	1501180-71	4/1/2015	6010B(Pb)
BD4-E-0.5	SOIL	1501180-76	4/1/2015	6010B(Pb), 6020 (As)
BD4-W-0.5	SOIL	1501180-82	4/1/2015	6010B(Pb), 6020 (As)
BD4-S-0.5	SOIL	1501180-88	4/1/2015	6010B(Pb)
C9-0.5	SOIL	1501180-94	4/1/2015	6020 (As)
C8-0.5	SOIL	1501180-AA	4/1/2015	6020 (As)
D8-0.5	SOIL	1501180-AG	4/1/2015	6020 (As)
BD27-N-0.5	SOIL	1501180-AM	4/1/2015	6010B(Pb)
BD27-E-0.5	SOIL	1501180-AS	4/1/2015	6010B(Pb), 6020 (As)
E9-0.5	SOIL	1501180-AY	4/1/2015	6020 (As)
D9-0.5	SOIL	1501180-BE	4/1/2015	6020 (As)
DUP 7	SOIL	1501180-BK	4/1/2015	6020 (As)
BD15-EB-0.5	SOIL	1501180-BL	4/1/2015	6010B(Pb), 8081(OCP), STLC(Pb), TCLP(Pb)
BD15-EB-1	SOIL	1501180-BM	4/1/2015	6010B(Pb)
BD15-EA-0.5	SOIL	1501180-BP	4/1/2015	6010B(Pb), 8081(OCP)
PS1-0.5	SOIL	1501180-BT	4/1/2015	6020 (As)
PS1-3	SOIL	1501180-BY	4/1/2015	8260B(VOCS)
EQ BLANK	WATER	1501180-CC	4/1/2015	6010B(Pb), 8081(OCP), 6020(As)
DUP9	SOIL	1501180-CD	4/1/2015	8260B(VOCS)
F2S-0.5	SOIL	1501229-03	4/4/2015	6020 (As)
F2W-0.5	SOIL	1501229-09	4/4/2015	6020 (As)
BD15-EbN-0.5	SOIL	1501229-15	4/4/2015	6010B(Pb), TCLP(Pb)

Client Sample ID	Matrix	Lab Sample ID	Date Sampled	Analyses Performed
BD15-EbN-1	SOIL	1501229-16	4/4/2015	6010B(Pb)
F2N-0.5	SOIL	1501229-18	4/4/2015	6020 (As)
F2E-0.5	SOIL	1501229-24	4/4/2015	6020 (As)
BD15-EbE-0.5	SOIL	1501229-28	4/4/2015	6010B(Pb), STLC(Pb), TCLP(Pb)
BD15-EbE-1	SOIL	1501229-29	4/4/2015	6010B(Pb)
BD15-EbE-1.5	SOIL	1501229-30	4/4/2015	6010B(Pb)
BD15-EbS-0.5	SOIL	1501229-34	4/4/2015	6010B(Pb), STLC(Pb), TCLP(Pb)
EQ Blank	WATER	1501229-40	4/4/2015	6010B(Pb), 6020 (As)

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DATA VALIDATION MEMORANDUM

TRC Project No:	231058
To:	John C. Gonzales, PE – Project Manager
From:	Berwyn Salazar, REPA - Project QA Manager
Site:	LAUSD James A. Foshay Learning Center
Date:	May 5, 2015
Subject:	Summary of Data Validation for H&P Geochemistry, Inc. (H&P) Job No. E503145

Introduction

This report summarizes the findings of an Environmental Protection Agency (EPA) Level II documentation review of analytical chemistry results of seven (7) soil vapor samples that were generated in support of the Los Angeles Unified School District (LAUSD) James A. Foshay Learning Center Preliminary Environmental Assessment (PEA). These samples were analyzed for volatile organic compounds (VOCs) plus oxygenates and total petroleum hydrocarbons (TPH) (EPA Method TO-15) by H&P Geochemistry, Inc. (H&P). The samples are listed in Table 1 which is included at the end of this document.

The data were reviewed in accordance with criteria specified in the Quality Assurance Project Plan (QAPP) of the PEA Work Plan for the LAUSD James A. Foshay Learning Center written by TRC Solutions, Inc. dated March 27, 2015; United States Environmental Protection Agency (USEPA) National Functional Guidelines for Laboratory Data Review, Organics (EPA, 2113); Advisory - Active Soil Gas Investigations by Department of Toxic Susbtance Control (DTSC), California Regional Water Quality Control Board – Los Angeles and San Francisco Regions (SFRWQCB/LARWQCB) (DTSC/ SFRWQCB/LARWQCB, 2012) and Data Validation Memorandum Summary of Level II Data Validation (DTSC, 2006). Where specific guidance is not available, the data has been reviewed consistent with industry standards using professional experience and professional judgment by the validation team.

Executive Summary

All samples were analyzed as requested. No data was qualified by H&P and no qualifiers were assigned during the validation process.

The leak check compound (LCC) utilized was 1,1-Difluoroethane and was not detected above the reporting limit (RL) of 27 micrograms per cubic meter ($\mu g/m^3$) with the exception of sample SG2-5 where 220 $\mu g/m^3$ of the LCC was reported. This reported concentration is less than ten times the RL, therefore no corrective action was necessary and no data was qualified.

Overall, based on the level of validation covering the quality control parameters listed below, these data are useable and acceptable for meeting project objectives.

1. Completeness of the Laboratory Reports

Seven (7) soil vapor samples were analyzed for the requested method on the chain of custodies. The laboratory reports were reviewed to evaluate compliance that the following list of information was contained within the laboratory analytical report. The analytical report was considered complete because it contained the following information:

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Environmental laboratory certification for methods analyzed is not required for soil vapor analysis.
- ☑ Case narrative with appropriate signature
- ☑ Client identification, project name or number, site identification
- ☑ Sample designation
- ☑ Sample matrix
- ☑ Analytical method and analytes
- ☑ Dates and times of probe placement
- ☑ Dates and times of sample collection and analysis
- ☑ Reporting units and quantitation limits
- ☑ Dilution factors
- ☒ Report page numbering system
- ☑ Chain of custody forms
- ☑ Environmental results, compound identification, and quantification
- ☑ Observations regarding any occurrences which may adversely affect sample integrity or data quality
- ☑ Detailed description of all variances encountered during analysis, possible reasons, and corrective actions
- ☑ Definition of qualifiers

1.1 Environmental Laboratory Identification and Certification

Analyses were performed by H&P Geochemistry, Inc. with Department of Defense Environmental Laboratory Accreditation Program (Dod-ELAP) accreditation number L13-199-R1.

1.2 Case Narrative with Appropriate Signature

The H&P case narrative is enclosed with signature of Laboratory Director (Ms. Janis Villareal). The laboratory did not indicate any problems that would have affected sample integrity and data quality.

The case narratives describe the sample containers for EPA Method TO-15 analysis as glass air-tight syringes.

1.3 Client Identification, Project Name, Site Identification

The following information was enclosed in the reports:

Client:	TRC Solutions, Inc.
H&P Project:	TRC033115-A2
Client Project No:	231058
Site Location:	3751 S. Harvard Blvd.

1.4 Sample Designation

The laboratory designated a laboratory identification number to each sample and each sample collected was identified accordingly on the chain of custody. The laboratory identification numbers were used in the H&P analytical report.

1.5 Sample Matrix

The sample matrix (soil vapor) was identified appropriately in the analytical report.

1.6 Analytical Methods and Analytes

The analytical methods and associated analytes were identified in the analytical report.

1.7 Dates and Time of Probe Placement and Well Purging

The dates and times of probe placement were reported in the field log which was provided by H&P to the data validation team. The field log showed that all soil vapor probes were installed more than 30 minutes prior to sampling.

Purge volumes were listed in the log sheet (soil vapor sampling with syringe) that was attached to the chain of custody forms.

1.8 Dates and Times of Sample Collection and Analysis

All dates and time of sample collection were enclosed in the analytical report and the sample collection times were documented on the chain of custodies.

Date and time of analysis was included in the analytical report for EPA Method TO-15.

1.9 Reporting Units and Quantitation Limits

The reporting units and quantitation limits were enclosed in the analytical report for both methods. The results were reported in micrograms per cubic meter ($\mu g/m^3$).

1.10 Dilution Factors

Dilution Factors were enclosed in the analytical report. All samples were analyzed with a dilution factor of one (1).

1.11 Report Page Numbering System

The total number of pages was received for the analytical report. Pages including Case Narrative, Sample Results, Sample QC, MS/MSD and LCS QC Data were paginated and all pages were received in sequence. However, the chain of custody, field log sheets, and analysis time summary were not included in the pagination.

1.12 Chain of Custody Forms

Chain of custody forms were used to document sample collection dates, sample collection times and sample identification. All analyses were performed as requested on the chain of custody forms. The chain of custodies were properly completed in the field and included with the analytical report.

1.13 Environmental Results, Compound Identification, and Quantification

The analytical method (EPA Method TO-15) and associated analytes were identified in the analytical report.

1.14 Observations Affecting Data Quality

No occurrences which might adversely affect sample integrity or data quality were noted in the analytical report.

1.15 Method Variances and Corrective Action

No method variances were documented in the analytical report or noted in the case narrative.

1.16 Qualifiers

Laboratory Qualifier Definitions

None

Data Validation Qualifier Definitions

None

2. Volatile Organic Compounds plus Oxygenates and Total Petroleum Hydrocarbons (EPA Method TO-15)

Seven (7) soil vapor samples were analyzed for volatile organic compounds plus oxygenates and total petroleum hydrocarbons (EPA Method TO-15). The analytical data were reviewed to evaluate the quality of the data reported and compliance with this method. The data evaluation process did not include reviewing the raw data and instrument calibrations. The following summarizes the results of this review.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Holding times
- ☑ Equilibration times
- ☑ Method Blanks (MB)
- ☑ Laboratory Control Samples (LCS)
- ☑ Surrogates (System Monitoring Compounds)
- ☒ Leak Check Compound
- ☑ Purge Volumes
- ☑ Field Duplicates

2.1 Holding Times

All samples were analyzed within the method specified holding time (30 minutes for soil vapor in gas-tight glass syringe) as shown in the chain of custody form and the analytical times table provided in the report.

2.2 Equilibration Times

All samples were collected after the specified equilibration time (30 minutes) as shown in the field log provided by H&P and discussed in Section 1.7.

2.3 Method Blanks (MB)

No target analytes were detected in the associated method blanks. Method blanks were analyzed at the proper frequency for the number and types of samples analyzed.

2.4 Laboratory Control Samples (LCS)

Laboratory Control Samples were analyzed at the proper frequency for the number and types of samples analyzed. The percent recoveries of all spiked analytes were within the laboratory specified acceptability range.

2.5 Surrogates (System Monitoring Compounds)

The surrogates utilized: 1,2-Dichloroethane-d4, 4-bromofluorobenzene, and toluene-d8, were appropriate for the method. All surrogate percent recoveries for individual samples were within the laboratory specified acceptability range.

2.6 Leak Check Compound (LCC)

The LCC utilized was 1,1-Difluoroethane which was not detected above the reporting limit (RL) of 27 micrograms per cubic meter ($\mu g/m^3$) on all samples with the exception of sample SG2-5 where 220 $\mu g/m^3$ of the LCC was reported. This reported concentration is less than ten times the RL, therefore no corrective action was necessary and no data was qualified.

2.7 Purge Volumes

Purge volumes were noted on the chain of custodies and field logs as discussed in Section 1.7.

2.8 Field Duplicates

One (1) field duplicate/replicate pair was submitted to the mobile laboratory. Field duplicates/replicates were collected and analyzed at the proper frequency for the number of samples analyzed (at least one duplicate per sampling day or per 20 samples). Acceptable precision was demonstrated within a relative percent difference (RPD) of 100 or less. Precision of the field duplicates were determined for the following samples:

Analyte	Primary Sample	Result ($\mu g/m^3$)	Duplicate Sample	Result ($\mu g/m^3$)	RPD	Acceptance Limit	Qualifier
Acetone	SG-2-15	72	SG-2-15 REP	140	64	< 100	-
Tetrachloroethene	SG-2-15	51	SG-2-15 REP	36	34	< 100	-
TPHv	SG-2-15	ND	SG-2-15 REP	1300	-	< 100	-

$\mu g/m^3$: micrograms per cubic meter

Review of Data Quality Objectives (DQOs)

The project DQOs were evaluated to determine whether the quantitative and qualitative needs of the sampling and analysis program had been met. DQOs were specified in terms of specific data quality indicators (DQIs), i.e., precision, accuracy, representativeness, completeness, comparability, and RLs. The data generated from the investigation may not be considered invalid if the DQOs or criteria are not fully achieved. However, if necessary, variances will trigger the appropriate quality assurance/quality control (QA/QC) measures needed to evaluate and correct these activities.

Quality DQIs: Qualitative DQIs are comparability and representativeness.

- **Comparability:** Comparability expresses the confidence with which one data set can be compared to another. H&P used the specified method (EPA Method TO-15), consistent with the current standards of practice as approved by EPA and DTSC/LARWQCB. The method specified in the QAPP allow the data to be evaluated for trends or changes (in space or time) at the Site. The data were calculated in micrograms per cubic meter ($\mu g/m^3$), consistent with standard procedures so that the results of the analyses can be compared with those of other laboratories, if necessary. The DQO for comparability has been met.

- **Representativeness:** Representativeness is the degree to which data accurately and precisely represent the actual Site conditions (in terms of a population, parameter variations at a sampling point, process condition, or environmental condition). To address representativeness, the QAPP specified appropriate sampling methodologies; specifying and performing proper sample collection and preservation techniques; performing required decontamination procedures; selecting appropriate methods to prepare and analyze soil vapor samples; and establishing proper field and laboratory QA/QC procedures for the parameters of interest. Samples were collected and analyzed in accordance with the QAPP.

  The DQO for representativeness has been met.

Quantitative DQIs: Quantitative DQIs are precision and accuracy, completeness, and RLs. Precision and accuracy objectives, based on statistically generated limits established annually by H&P were viewed as goals, not as criteria. If matrix bias is suspected, the associated data will be qualified and the direction of the bias indicated in the data validation report. The results for field duplicates indicated appropriate sample collection and handling procedures.

- **Precision:** Precision measures the reproducibility of repetitive measurements by assessing the RPD between field and field duplicate analyses and between MS and MSD analyses. If the RPD for field and field duplicate analyses exceeds 100% as set by the project specific QAPP, data may be qualified. Field sample duplicates were analyzed at the required frequency of one per sampling day.

  The field sample/field duplicate RPDs were within the QAPP specified acceptance limits of 100.

  The RPD between MS and MSD analyses were within the laboratory specified acceptability ranges.

  No data was qualified; therefore, the DQO for precision has been met.

- **Accuracy:** Accuracy is a statistical measurement (the degree of agreement of a measurement with a known or true value) of correctness and includes components of random error (variability due to imprecision) and systematic error. Laboratory accuracy is expressed as the % recovery by assessing LCS, MS, MSD and surrogates. All recoveries of the LCS, MS, and MSD were reported within the corresponding laboratory specified acceptability ranges.

  Field accuracy is assessed through the analysis of method blanks to monitor errors associated with the sample container decontamination procedures and ambient site conditions. The DQO for method blanks is that all reported values are less than the corresponding RLs for the target analytes. The analytical results of the method blanks were non-detect (ND).

  No data was qualified; therefore, the accuracy DQO has been met.

- **Completeness:** Completeness is the amount of valid data obtained compared to the amount expected under ideal conditions. The DQO for completeness is to obtain valid results for at least 90% of the planned data results. Completeness may be affected by such factors as sample container leakage and acceptance/non-acceptance of analytical results. The analytical data for the samples are 100% complete and the DQO for completeness has been met.

- **RLs:** H&P reported the following RLs:

  - EPA Method TO-15 for VOCs plus Oxygenates: 13 to 100 $\mu g/m^3$ for soil vapor samples
  - EPA Method TO-15 for TPH: 500 $\mu g/m^3$ for soil vapor samples

These RLs meet the objectives of having sufficient quality data to perform a human health risk evaluation.

Overall Assessment of Data

Based on this Level II validation, all data collected through implementation of the QAPP satisfy data quality requirements specified for the investigation. The analyses followed the approved method and included acceptable QC procedures. The entire data package was reviewed. The data is acceptable based on compliance of quality control procedures and data reported. Overall, the presented data are reliable and useable for project decision making.

Table 1				
Client Sample ID	Matrix	Lab Sample ID	Date Sampled	Analyses Performed
SG1-15', 1PV	soil vapor	E503145-01	3/31/2015	TO-15 (VOCs + Oxygenates and TPH)
SG1-15', 3PV	soil vapor	E503145-02	3/31/2015	TO-15 (VOCs + Oxygenates and TPH)
SG1-15', 10PV	soil vapor	E503145-03	3/31/2015	TO-15 (VOCs + Oxygenates and TPH)
SG1-5'	soil vapor	E503145-04	3/31/2015	TO-15 (VOCs + Oxygenates and TPH)
SG2-5'	soil vapor	E503145-05	3/31/2015	TO-15 (VOCs + Oxygenates and TPH)
SG2-15'	soil vapor	E503145-06	3/31/2015	TO-15 (VOCs + Oxygenates and TPH)
SG2-15' REP	soil vapor	E503145-07	3/31/2015	TO-15 (VOCs + Oxygenates and TPH)

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DATA VALIDATION MEMORANDUM

To: John C. Gonzales, PE
From: Berwyn Salazar, REPA
Site: LAUSD – Foshay Learning Center
3757 S. Harvard Blvd., Los Angeles, CA
Project Number: 231058.0000
Date: April 21, 2015
Subject: Summary of Data Validation for H&P Mobile Geochemistry, Inc. (H&P)
Subject Reference Number: E-504008

Introduction

This report summarizes the findings of an Environmental Protection Agency (EPA) Level II documentation review of analytical chemistry results of one (1) soil vapor sample that was generated in support of the Los Angeles Unified School District (LAUSD) James A. Foshay Learning Center Preliminary Environmental Assessment (PEA). The sample was analyzed for volatile organic compounds (EPA TO-15) by H&P Mobile Geochemistry, Inc. (H&P). The sample is listed in Table 1 which is included at the end of this document.

The data was reviewed in accordance with criteria specified in the Quality Assurance Project Plan (QAPP) of the PEA Work Plan for the LAUSD James A. Foshay PEA written by TRC Solutions, Inc. dated March 27, 2015; USEPA National Functional Guidelines for Laboratory Data Review, Organics (EPA, 2014); Advisory - Active Soil Gas Investigations by Department of Toxic Substances Control (DTSC), California Regional Water Quality Control Board – Los Angeles and San Francisco Regions (SFRWQCB/LARWQCB) (DTSC/ SFRWQCB/LARWQCB, 2012); and Data Validation Memorandum Summary of Level II Data Validation (DTSC, 2006). Where specific guidance is not available, the data has been reviewed consistent with industry standards using professional experience and professional judgment by the validation team.

Executive Summary

All samples were analyzed as requested. No data was qualified by H&P and a qualifier was assigned during the validation process.

Data was qualified as "J" based on precision measurements as discussed in Field Duplicate section of Method TO-15 (Section 2.9). The higher of the two values used for the relative percent difference (RPD) calculation should be reported.

No trip blank was submitted with the sample that was analyzed by TO-15.

Overall, based on the level of validation covering the quality control parameters listed below, these data are useable and acceptable for meeting project objectives.

1. Completeness of the Laboratory Reports

One (1) soil vapor sample was analyzed for the requested method on the chain of custody. The laboratory report was reviewed to evaluate compliance that the following list of information was contained within the laboratory analytical report. The analytical report was considered complete because it contained the following information:

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Environmental laboratory certification for methods analyzed is not required for soil vapor analysis.
- ☑ Case narrative with appropriate signature
- ☑ Client identification, project name or number, site identification
- ☑ Sample designation
- ☑ Sample matrix
- ☑ Analytical method and analytes
- ☑ Dates and times of probe placement
- ☑ Dates and times of sample collection and analysis
- ☑ Reporting units and quantitation limits
- ☑ Dilution factors
- ☑ Report page numbering system
- ☑ Chain of custody form
- ☑ Environmental results, compound identification, and quantification
- ☑ Observations regarding any occurrences which may adversely affect sample integrity or data quality
- ☑ Detailed description of all variances encountered during analysis, possible reasons, and corrective actions
- ☑ Definition of qualifiers

1.1 Environmental Laboratory Identification and Certification

Analyses were performed by H&P Geochemistry, Inc. (H&P) with Department of Defense Environmental Laboratory Accreditation Program (Dod-ELAP) accreditation number L13-199-R1.

1.2 Case Narrative with Appropriate Signature

The H&P case narrative is enclosed with signature of Laboratory Director (Ms. Janis Villarreal). The laboratory did not indicate any problems that would have affected sample integrity and data quality.

1.3 Client Identification, Project Name, Site Identification

The following information was enclosed in the analytical report:

Client:	TRC Solutions, Inc.
Project Name:	LAUSD James A. Foshay Learning Center
Project Number:	213058
Site Location:	3751 S. Harvard Blvd., Los Angeles, CA

1.4 Sample Designation

The laboratory designated a laboratory identification number to each sample and each sample collected was identified accordingly on the chain of custody. The laboratory identification number was used in the H&P analytical reports.

1.5 Sample Matrix

The sample matrix (soil vapor) was identified appropriately in the analytical report.

1.6 Analytical Methods and Analytes

The analytical method and associated analytes were identified in the analytical report.

1.7 Dates and Time of Probe Placement and Well Purging

The dates and times of probe placement were reported in the field log which was provided by H&P to the data validation team. The field log showed that all soil vapor probes were installed more than 30 minutes prior to sampling.

Purge volumes were listed in the log sheet (soil vapor sampling with syringe) that was attached to the chain of custody forms.

1.8 Dates and Times of Sample Collection and Analysis

All dates and time of sample collection were enclosed in the analytical report and the sample collection time was documented on the chain of custody.

Date of analysis was included in the analytical report for Method EPA TO-15.

1.9 Reporting Units and Quantitation Limits

The reporting units and quantitation limits were enclosed in the analytical report for both methods. The results were reported in micrograms per cubic meter ($\mu g/m^3$).

1.10 Dilution Factors

Dilution Factors were enclosed in the analytical report. The sample was analyzed with a dilution factor of one (1).

1.11 Report Page Numbering System

The total number of pages was received for the analytical report. Pages including Case Narrative, Sample Results, Sample QC, MS/MSD and LCS QC Data were paginated and all pages were received in sequence.

The chain of custody form and Soil Vapor Log Sheet were not included in the pagination.

1.12 Chain of Custody Form

A chain of custody form was used to document sample collection dates, sample collection times and sample identification. The analysis was performed as requested on the chain of custody form. The chain of custody was properly completed in the field and included with the analytical report.

1.13 Environmental Results, Compound Identification, and Quantification

The analytical method (EPA TO-15) and associated analytes were identified in the analytical report.

The Case Narrative for EPA TO-15 stated that extra compounds required by DTSC/RWQCB (such as Freon 113) were included in the analyte list.

1.14 Observations Affecting Data Quality

No occurrences which might adversely affect sample integrity or data quality were noted in the analytical report.

1.15 Method Variances and Corrective Action

No method variances were documented in the analytical report or noted in the case narrative.

1.16 Qualifiers

Laboratory Qualifier Definitions

None

Data Validation Qualifier Definitions

J The result is an estimated value, since the RPD between the field sample and field duplicate sample was above 100. The higher of the two values used in the RPD calculation should be reported (Section 2.9).

2. Volatile Organic Compounds (EPA TO-15)

One (1) soil vapor sample was analyzed for volatile organic compounds (EPA TO-15). The analytical data were reviewed to evaluate the quality of the data reported and compliance with this method. The data evaluation process did not include reviewing the raw data and instrument calibrations. The following summarizes the results of this review.

The areas of review are listed below. A check mark ☑ indicates an area of review in which all data are acceptable. An ☒ indicates areas where issues were raised during the process of the validation review and should be considered to determine any impact on data quality and usability.

- ☑ Holding times
- ☑ Equilibration times
- ☑ Method Blanks (MB)
- ☑ Laboratory Control Spike (LCS)
- ☑ Surrogates (System Monitoring Compounds)
- ☑ Leak Check Compound
- ☑ Purge Volumes
- ☒ Trip Blank
- ☒ Field Duplicates

2.1 Holding Times

The sample was analyzed within the method specified holding time (72 hours for TO-15 (summa canister).

2.2 Equilibration Times

The sample was collected after the specified equilibration time (30 minutes) as shown in the field log provided by H&P and discussed in Section 1.7.

2.3 Method Blank (MB)

No target analytes were detected in the associated method blank. Method blank was analyzed at the proper frequency for the number and types of samples analyzed.

2.4 Laboratory Control Spike Duplicates (LCS)

LCS was prepared and analyzed for the applicable sample matrix at the proper frequency. Ambient air was used for spiking for the applicable QC Batch. LCS was reported with a shorter list of compounds than the sample analyzed.

2.5 Surrogates (System Monitoring Compounds)

The surrogates utilized: 1,2-Dichloroethane-d4, Toluene-d8, 4-bromofluorobenzene were appropriate for the method. All surrogate percent recoveries were within the laboratory specified acceptability range.

2.6 Tracer Compound

The tracer compound utilized was 1,1-Difluoroethane. The tracer compound was not detected above 5.5 micrograms per cubic meter ($\mu g/m^3$).

2.7 Purge Volumes

Purge volumes were noted on the chain of custody and field logs as discussed in Section 1.7.

2.8 Trip Blank

No Trip Blank was submitted for analysis. Trip Blank was not analyzed at the proper frequency for the number and type of sample analyzed.

2.9 Field Duplicate

One (1) duplicate pair was analyzed for volatile organic compounds by EPA methods 8260B and TO-15. The EPA 8260B analytical data was validated under a separate Data Validation Memorandum (DVM 212). Acceptable precision was demonstrated within a relative percent difference (RPD) of 100 or less with the exception of the results that were qualified as “J”, an estimated value, since the RPD was above 100 (Section 1.16). The higher of the two values used for the RPD calculation should be reported.

Precision of the field duplicates were determined for the following samples:

Analyte	Duplicate Sample by TO-15	Result (µg/L)	Primary Sample by 8260B	Result (µg/L)	RPD	Acceptance Limit	Qualifier
Benzene	SV-3-5	0.075	SV-3-5	ND	-	100	-
Chloroform	SV-3-5	0.013	SV-3-5	ND	-	100	-
Dibromochloromethane	SV-3-5	0.018	SV-3-5	ND	-	100	-
Ethylbenzene	SV-3-5	0.036	SV-3-5	0.279	**154**	100	**J**
Heptane	SV-3-5	0.017	SV-3-5	NA	-	100	-
Hexane	SV-3-5	0.120	SV-3-5	NA	-	100	-
MTBE	SV-3-5	0.005	SV-3-5	ND	-	100	-
Toluene	SV-3-5	0.436	SV-3-5	1.28	98	100	-
1,2,4-Trimethylbenzene	SV-3-5	0.034	SV-3-5	ND	-	100	-
1,3,5-Trimethylbenzene	SV-3-5	0.015	SV-3-5	ND	-	100	-
Xylenes	SV-3-5	0.309	SV-3-5	0.396	25	100	-
sec-Butylbenzene	SV-3-5	NA	SV-3-5	0.032	-	100	-

µg/L: micrograms per Liter NA = Not Analyzed

Review of Data Quality Objectives (DQOs)

The project DQOs were evaluated to determine whether the quantitative and qualitative needs of the sampling and analysis program had been met. DQOs were specified in terms of specific data quality indicators (DQIs), i.e., precision, accuracy, representativeness, completeness, comparability, and RLs. The data generated from the investigation may not be considered invalid if the DQOs or criteria are not fully achieved. However, if necessary, variances will trigger the appropriate quality assurance/quality control (QA/QC) measures needed to evaluate and correct these activities.

Quality DQIs: Qualitative DQIs are comparability and representativeness.

- **Comparability:** Comparability expresses the confidence with which one data set can be compared to another. H&P used the specified EPA Method (EPA TO-15), consistent with the current standards of practice as approved by EPA and DTSC/LARWQCB. The methods specified in the QAPP allow the data to be evaluated for trends or changes (in space or time) at the Site. The data were calculated in micrograms per cubic meter ($\mu g/m^3$), consistent with standard procedures so that the results of the analyses can be compared with those of other laboratories, if necessary. The DQO for comparability has been met.

- **Representativeness:** Representativeness is the degree to which data accurately and precisely represent the actual Site conditions (in terms of a population, parameter variations at a sampling point, process condition, or environmental condition). To address representativeness, the QAPP specified appropriate sampling methodologies; specifying and performing proper sample collection and preservation techniques; performing required decontamination procedures; selecting appropriate methods to prepare and analyze soil vapor samples; and establishing proper field and laboratory QA/QC procedures for the parameters of interest. Samples were collected and analyzed in accordance with the QAPP with the exception of the fact that no trip blank was submitted to the laboratory for analysis by TO-15 method.

  The DQO for representativeness has been met.

Quantitative DQIs: Quantitative DQIs are precision and accuracy, completeness, and RLs. Precision and accuracy objectives, based on statistically generated limits established annually by H&P were viewed as goals, not as criteria. If matrix bias is suspected, the associated data will be qualified and the direction of the bias indicated in the data validation report. The results for field duplicates indicated appropriate sample collection and handling procedures.

- **Precision:** Precision measures the reproducibility of repetitive measurements by assessing the RPD between field and field duplicate analyses and between MS and MSD analyses. If the RPD for field and field duplicate analyses exceeds 100% as set by the project specific QAPP, data may be qualified. Field sample duplicates were analyzed at the required frequency of one per sampling day.

  Data was qualified as "J" based on precision measurements as discussed in Field Duplicate section of Method TO-15 (Section 2.9). The higher of the two values used for the RPD calculation should be reported.

  The RPD between MS and MSD were within the laboratory specified acceptability ranges.

  No data was rejected; therefore, the DQO for precision has been met.

- **Accuracy:** Accuracy is a statistical measurement (the degree of agreement of a measurement with a known or true value) of correctness and includes components of random error (variability due to imprecision) and systematic error. Laboratory accuracy is expressed as the % recovery by assessing LCS and surrogates. All recoveries of the surrogates and LCS, were reported within the corresponding laboratory specified acceptability ranges.

  Field accuracy is assessed through the analysis of method blanks to monitor errors associated with the sample container decontamination procedures and ambient site conditions. The DQO for method blanks is that all reported values are less than the corresponding RLs for the target analytes. The analytical results of the method blank were non-detect (ND).

  No data was qualified; therefore, the accuracy DQO has been met.

- **Completeness:** Completeness is the amount of valid data obtained compared to the amount expected under ideal conditions. The DQO for completeness is to obtain valid results for at least 90% of the planned data results. Completeness may be affected by such factors as sample container leakage and acceptance/non-acceptance of analytical results. The analytical data for the samples are 100% complete and the DQO for completeness has been met.

- **RLs:** H&P Mobile Geochemistry, Inc. (H&P) reported the following PQLs:

  EPA Method TO-15: 2.1 to 54 $\mu g/m^3$ for soil gas samples.

  These RLs meet the objectives of having sufficient quality data to perform a human health risk evaluation.

Overall Assessment of Data

Based on this Level II validation, all data collected through implementation of the QAPP satisfy data quality requirements specified for the investigation. The analyses followed the approved method and included acceptable QC procedures. The entire data package was reviewed. The data is acceptable based on compliance of quality control procedures and data reported. Overall, the presented data are reliable and useable for project decision making.

Table 1

Client Sample ID	Matrix	Lab Sample ID	Date Sampled	Analyses Performed
SG2-15-Con	Soil Gas	E504008-01	3/31/2015	TO-15