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Supplemental Site Investigation Report
David Starr Jordan Senior High School

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Los Angeles Unified School District
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PLACEWORKS

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List of Acronyms

AETL	American Environmental Testing Laboratory, Inc.
APN	Assessor Parcel Number
ASTM	American Society for Testing and Materials
bgs	below ground surface
CalEPA	California Environmental Protection Agency
CCR	California Code of Regulation
CDPH	California Department of Public Health
CFR	Code of Federal Regulations
CHHSL	California Human Health Screening Level
CMP	Comprehensive Modernization Project
COC	constituent of concern
COPC	constituent of potential concern
cy	cubic yards
DOGGR	Division of Oil, Gas and Geothermal Resources
DTSC	California Department of Toxic Substances Control
EDR	Environmental Data Resources
ELAP	Environmental Laboratory Accreditation Program
ESA	Environmental Site Assessment
ESL	Environmental Screening Level
FID	flame-ionization detector
HACLA	Housing Authority of the County of Los Angeles
HASP	Health and Safety Plan
HERO	DTSC Office of Human and Ecological Risk
HHSE	human health screening evaluation
HSO	Health and Safety Officer
IDW	investigation-derived waste
in. H_2O	inches water column
IQ	Intelligence Quotient
J&E	Johnson & Ettinger
JDRP	Jordan Downs Redevelopment Project
LADBS	Los Angeles City Department of Building and Safety
LAUSD	Los Angeles Unified School District
LBP	lead-based paint
MDL	method detection limit
mg/kg	milligram/kilogram
mg/L	milligram/liter
ml/min	milliliter/minute
mph	miles per hour
msl	mean sea level

List of Acronyms

NOVs	Notices of Violations
OCPs	organochlorine pesticides
OEHHA	Office of Environmental Health Hazard Assessment
OEHS	Office of Environmental Health and Safety
OSHA	Occupational Safety and Health Administration
OVA	organic vapor analyzer
PCBs	polychlorinated biphenyls
PG	Professional Geologist
PEA	Preliminary Environmental (or Endangerment) Assessment
PPE	personal protection equipment
PQL	practical quantitation limit
PRG	preliminary remediation goal
QA/QC	quality assurance/quality control
RAW	Removal Action Workplan
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
RSL	Regional Screening Level
RWQCB – LA	Regional Water Quality Control Board – Los Angeles
RWQCB – SFB	Regional Water Quality Control Board – San Francisco Bay
SCAQMD	South Coast Air Quality Management District
SL	Screening Level
SMP	Seismic Modernization Project
STLC	Soluble Threshold Limit Concentration
SWRCB	State Water Resources Control Board
TCLP	Toxicity Characteristic Leaching Procedure
TPH-g	total petroleum hydrocarbons in the gasoline range
TPH-d	total petroleum hydrocarbons in the diesel range
TPH-o	total petroleum hydrocarbons in the oil range
UCL	upper confidence limit
µg/dl	microgram/deciliter
µg/kg	microgram/kilogram
µg/L	microgram/liter
UN	United Nations
USA	Underground Service Alert
USEPA	United State Environmental Protection Agency
USGS	United States Geological Survey
VOCs	volatile organic compounds
WET	Waste Extraction Test

Executive Summary

This document presents the results of a *Supplemental Site Investigation* (SSI) conducted for a portion of the David Starr Jordan Senior High School for the Los Angeles Unified School District (LAUSD) located at 2265 East 103rd Street, Los Angeles, California (Site). The location of the 19 acre campus is shown on Figure 1 and Figure 2. The SSI focuses on the northern 2.8 acre portion of the Site that was deeded to LAUSD from the Housing Authority of the County of Los Angeles (HACLA) in 1974. The Site is currently used for a softball field and the former basketball and tennis courts north of the football field on the campus (see Figure 3).

On April 24, 2018, LAUSD completed a Voluntary Clean-up Agreement (VCA) with the Department of Toxic Substances Control (DTSC) to address the impact to the soil found during previous investigations at the Site. The SSI Workplan was submitted to the DTSC on May 4, 2018 and approved on May 11, 2018. The field work was implemented for the SSI between June 8 and August 13, 2018.

The sampling procedures followed DTSC guidance, including the *Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers*. The field program consisted of the completion of 73 initial soil borings to a maximum depth of 40 feet bgs, and 207 additional step-out or spatial coverage borings to a maximum depth of 30 feet bgs. The soil samples were analyzed for lead, arsenic, and/or Total Petroleum Hydrocarbons (TPH) depending on location.

Executive Summary

After evaluating the analytical results, PlaceWorks concludes the following conditions exist at the Site:

- TPH in gasoline (-g), diesel (-d), and oil (-o) carbon chain ranges were previously detected above 1,000 milligrams per kilogram (mg/kg) on both sides of the Jordan Downs Redevelopment Project (JDRP)/LAUSD property line during the limited soil screening investigation conducted for JDRP by Anderson Environmental in 2017. During the current investigation TPH-d was detected at two locations above the Regional Water Quality Control Board – San Francisco Bay commercial/industrial shallow soil level of 1,000 mg/kg. The southern portion of the JDRP plume was further delineated. The highest concentrations of TPH were limited to the property boundary with JDRP. The concentrations found at a depth of 5 feet at the northwest boundary with JDRP would indicate that the source was located north of the current property line of JDRP and the northwest corner of the Site. Using site-specific data collected for this investigation and by Anderson Environmental (2017), the 95% Upper Confidence Level (UCL) concentrations for TPH in gasoline, diesel and oil carbon chain ranges is 93.98 mg/kg, 1,877.8 mg/kg, and 138.48 mg/kg, respectively.

- Arsenic was detected above its preliminary screening level of 12 mg/kg in 182 soil samples from 108 locations, with a maximum reported concentration of 226 mg/kg. Step-out and step-down sampling was conducted in an effort to define the lateral and vertical extent of arsenic-impacted soil. The maximum depth of arsenic impacted soil was found at SSI-14-C at a depth of 180" or 15 feet bgs (below ground surface). Using data collected for this investigation, the 95% UCL arsenic concentration is 22.27 mg/kg. Soluble arsenic test results (Toxicity Characteristic Leaching Procedure (TCLP) and Soluble Threshold Limit Concentration (STLC)) determined that approximately 38 cubic yards have arsenic concentrations that require management as a California Regulated hazardous waste.

- Lead was detected above its preliminary screening level of 80 mg/kg in 32 soil samples from 15 locations, with a maximum reported concentration of 1,220 mg/kg. Step-out and step-down sampling was conducted around six of the locations in an effort to define the lateral and vertical extent of lead-impacted soil. The maximum depth of lead impacted soil was found at SSI-45-C at a depth of 36 inches. Using data collected for this investigation, the 95% UCL lead concentration is 73.21 mg/kg. Soluble lead test results (TCLP and STLC) determined that approximately 37 cubic yards of the lead-impacted soil will require management as California Regulated hazardous waste.

- Field procedures and laboratory data were evaluated to assure that data quality objectives were met and the data were suitable for their intended use. No significant quality assurance/quality control issues were identified.

- Based on the SSI objectives, and the results of this SSI field investigation, PlaceWorks has determined that elevated concentrations of TPH, arsenic and lead are present in Site soil that require remediation to ensure the health and safety of staff, students, and visitors to the existing high

school. Arsenic-, lead-, and TPH-impacted soil has been identified at 45 discrete locations, representing a total estimated in-situ volume of approximately 3,409 cubic yards of non-hazardous waste and approximately 75.4 cubic yards of California Regulated hazardous waste.

Recommendations

PlaceWorks recommends that a Removal Action Workplan (RAW) be prepared to guide the excavation, transport, and off-site disposal of the petroleum-, arsenic- and lead-impacted soil. The RAW should also include procedures for confirmation soil sampling, dust suppression, air monitoring, worker and student health and safety, data quality assurance, and potential land use restrictions.

1. Introduction

This document presents the results of a *Supplemental Site Investigation* (SSI) conducted for a portion of the David Starr Jordan Senior High School for the Los Angeles Unified School District's (LAUSD's) located at 2265 East 103rd Street, Los Angeles, California. This Supplemental Site Investigation Report was prepared by PlaceWorks on behalf of the Los Angeles Unified School District (LAUSD). The Site is approximately 2.8 acres bounded by the Jordan Downs Redevelopment Project (JDRP) currently under construction to the north, Atlas Iron and Metals to the east, the remainder of the David Starr Jordan Senior High School campus to the south, and Jordan Downs Public Housing apartments to the west (Figure 3).

The SSI report was conducted in accordance with a Voluntary Clean-up Agreement, a workplan that consisted of a narrative scope of services, a sampling summary table, and sample location figures (LAUSD, 2018). It was also consistent with DTSC guidance, including the *Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers* (DTSC, 2006). Field work was conducted in the 2.8 acre softball field and former tennis and basketball courts located on the northern portion of the campus. The field program included soil sampling from 280 borings across the Site. Analytical results were assessed to determine whether chemical constituents were present at concentrations that could pose a potential health risk posed to construction workers and/or individuals that attend and work at the school. Based on the health risk analysis, recommendations were provided as to the need for further action.

1.1 SSI OBJECTIVES

The overall goal of the SSI process is to document Site conditions and to assess any potential human health risks associated with any chemicals of potential concern (COPCs) identified during field investigation activities. The specific objectives for the current SSI are identified on the following page.

- Investigate the recognized environmental conditions (RECs) that were identified in the limited soil screening investigations that had previously occurred at the Site and that fall within the designated boundaries of the Site.

- Establish, through a field sampling and analysis program, the nature and extent of any COPCs that may be present in soil within the Site.

- Estimate the potential threat to public health and/or the environment posed by hazardous constituents, through a screening-level human health risk evaluation that assumes a conservative residential land use scenario.

- Determine whether releases of hazardous materials or wastes from neighboring properties or historical site use have occurred that require further action to obtain approval for future construction to proceed. To the extent allowed by the analytical data, define the lateral and vertical extents of any areas of impacted soil (i.e., having concentrations above risk-based screening levels) and estimate their associated volumes for removal per the Voluntary Clean Up Action with the DTSC.

1.2 SCOPE OF WORK

The SSI involved the following scope of work:

- Developing sampling and analysis plans to assess the extent of contamination in the soil at the Site.

- Preparation of a field work notice, in English and Spanish, which was posted on perimeter fences and delivered to parents of David Starr Jordan Senior High School students, surrounding residences and businesses, and key contacts.

- Preparation of a site-specific Health and Safety Plan.

- Contacting Underground Service Alert and checking all investigation locations for the presence of utilities or subsurface obstructions by geophysical means.

- Implementation of the SSI field program to assess environmental conditions at the Site, as follows:

    - Completion of 270 soil borings to assess for potential impacts associated with the historical use of the Site as a laydown yard for the former adjacent steel mill operations. Soil samples were analyzed for lead and/or arsenic.

    - Completion of six (6) soil borings to assess for potential impacts associated with a TPH plume formerly located on adjacent land to the north.

    - Completion of four (4) soil borings to assess for potential impacts associated with lead and/or arsenic from historical use as a laydown yard and impacts associated with a TPH plume formerly located on adjacent land to the north.

- Evaluation of the resultant data by means of a screening level human health screening evaluation to determine if significant impacts have occurred.

- Preparation of this Supplemental Site Investigation Report.

1.3 DATA QUALITY OBJECTIVES

Data Quality Objectives (DQOs) were specified for each data collection activity. The project work was conducted and documented so that the data collected were of sufficient quality for their intended use (United States Environmental Protection Agency [USEPA] 1998). DQOs specify the data type, quality, quantity, and uses needed to make decisions, and are the basis for designing data collection activities. The DQOs have been used to design the data collection activities presented in the SSI report. The DQOs for the project are discussed in detail in the Quality Assurance Project Plan (QAPP) that was prepared for this SSI report.

1.4 SSI REPORT FORMAT

This SSI Report is organized as follows:

- Section 1: Introduces the school project, identifies the SSI objectives, and outlines the SSI scope of work.
- Section 2: Describes the Site, Site history, and provides background information and summarizes previous environmental investigations conducted for the Site.
- Section 3: Describes the environmental setting as it relates to various potential contaminant exposure pathways (i.e., soil, groundwater, surface water, and air).
- Section 4: Introduces the sampling strategy and rationale, the preliminary screening levels that were used to evaluate the data and describes the SSI field activities.
- Section 5: Presents the analytical results, discusses their significance, and defines soil removal areas for locations where impacted soil was discovered.
- Section 6: Describes the field activities that varied from those outlined in the SSI workplan.
- Section 7: Provides a human health screening evaluation that explains the potential health risks and hazards associated with the chemicals of potential concern detected at the Site and presents the accepted DTSC screening levels used by JDRP for the development of their project.
- Section 8: Presents conclusions and recommendations based on an evaluation of the data collected during the SSI.
- Section 9: Lists the references cited in the Supplemental Site Investigation Report.

Copies of laboratory reports and other information relevant to the performance of the SSI are provided in appendices to the report.

2. Summary of Site Background

The LAUSD's David Starr Jordan Senior High School is located at 2265 East 103rd Street, Los Angeles, California 90002 (Figure 1). The high school is approximately 19 acres in size. The southern portion of the Site is identified as Los Angeles County Assessor Parcel Number (APN) 604-602-1918. The northern portion of the Site has no APN, as it is identified as an easement for the extension of Century Boulevard. LAUSD was deeded the easement for use as a school yard in 1974. The northwestern portion of the Site was historically occupied with low income housing in the early 1950s. The central and eastern portions of the Site were formerly used as a laydown yard for the steel mill from 1948 to 1959. For purposes of this SSI, the "Site" is considered to be the softball field and the area north of the football field, track and bleachers. These areas are shown on the Figure 2 *Aerial Photograph* of the campus.

2.1 SITE DESCRIPTION

The LAUSD's David Starr Jordan Senior High School is approximately 19 acres in size. For purposes of this SSI, the "Site" area is approximately 2.8 acres and includes the softball field and the area north of the football field, track and bleachers, which is paved and was formerly used as basketball and tennis courts. These areas are shown on the Figure 2 *Aerial Photograph* of the campus. The Site is relatively flat and slopes to the south.

2.2 SITE NAME

The Site is identified by the LAUSD as the David Starr Jordan Senior High School.

2.3 SITE OWNER

The Site is currently owned by the Los Angeles Unified School District.

2.4 SITE ADDRESS AND CURRENT OCCUPANTS

The Site is located at 2265 East 103rd Street, Los Angeles, California 90002. It is currently occupied by David Starr Jordan Senior High School and the Animo College Preparatory Charter High School.

2.5 DESIGNATED CONTACT PERSON

Contact information for general inquiries regarding the project should be directed to Mr. Patrick Schanen, Environmental Health Manager, as follows:

LOS ANGELES UNIFIED SCHOOL DISTRICT
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017
Telephone: (213) 241-3356

2.6 OTHER SITE NAMES

No other Site names were identified by the LAUSD.

2.7 REGULATORY AGENCY IDENTIFICATION NUMBERS

The Site is listed on DTSC'S EnviroStor database under the identification of Jordan High School (60001889).

2.8 SITE ZONING AND LAND USE

According to the Los Angeles Department of City Planning, the campus is zoned PF (UV) for Public Facilities.

2.9 GEOGRAPHICAL COORDINATES

The Site and vicinity are depicted on the 1998 United States Geological Survey (USGS) *South Gate, California 7.5 Minute Quadrangle* at an approximate elevation of 110 to 112 feet above mean sea level (msl). The approximate geographic coordinates for the Site are 33.9458° north latitude and 118.2314° west longitude.

2.10 SITE MAPS AND PHOTOGRAPHS

The Site project boundaries are shown on Figure 3a. Site location and vicinity maps are provided as Figures 1 and 2, respectively. Representative photographs of SSI field activities are provided in Appendix A.

2.11 SITE HISTORY

The general Site history was summarized in the Phase I Environmental Site Assessment prepared by Robin Environmental Management Company in 2004. The southern portion of the Site was sold in 1924 to Compton Union School District for the establishment of Watts Union High School. In 1927 the high

school was transferred to LAUSD and renamed as David Starr Jordan Senior High School. An auto repair shop was located east of the Site (where Atlas Iron and Metal Company is currently located) from 1928 to about 1937. Metal recycling operations have been on the land to the east since at least 1951 to the present. A steel mill was located north of the Site from 1941 to about 1979. The northwestern portion of the Site was occupied with low income housing in the early 1950s. The northern portion of the Site was used as a laydown yard for the steel mill from about 1948 to about 1959. The Site was unoccupied from 1960 until LAUSD was deeded the land in 1974.

2.12 PREVIOUS INVESTIGATIONS AND EXCAVATION ACTIVITIES

An inert artillery shell from the adjacent Atlas Iron and Metal Company landed on the Site (softball field) on December 13, 2002. As a result of the explosion incident, the DTSC increased their scrutiny of the Atlas Iron and Metal Company. In 2004, the DTSC commissioned Robin Environmental Management Company to perform a Phase I Environmental Site Assessment on the northeastern corner of Jordan High School (current softball field), along with land immediately north and east of the softball field. The Phase I Environmental Site Assessment was conducted concurrently with a soil sampling program implemented by DTSC to investigate the former steel mill property to the north and metal recycling properties to the east of the Site. The DTSC investigation was conducted between March 27 and April 20, 2004. The DTSC investigation discovered elevated levels of lead, arsenic, polychlorinated biphenyls, copper, chromium and antimony in soil.

In June 2004, the DTSC commissioned Accord Engineering, Inc., to conduct an Emergency Excavation Workplan for the softball field on the northeastern and eastern portions of the Site. The purpose of the Emergency Excavation Workplan was to respond to a DTSC Imminent and Substantial Endangerment Determination due to their discovery of elevated metals in the softball field. The Workplan also documents a previous Phase I Environmental Site Assessment from 2004 and a DTSC investigation of the portion of the Site adjoining Atlas Iron and Metal Company property conducted between March 27 and April 20, 2004. The DTSC investigation discovered elevated levels of lead, arsenic, polychlorinated biphenyls, copper, chromium and antimony in soil.

Following the removal and disposal of contaminated soil along the perimeter of the Site between June 21 and 28, 2004, DTSC commissioned Accord Engineering, Inc. to prepare an Emergency Excavation Completion Report. The report documents the excavation and disposal activities, and includes details about confirmation sampling and backfill operations. The DTSC certified the Final Emergency Excavation Completion Report on May 4, 2005.

After reviewing remedial assessment and removal activities being completed north of the Site by JDRP in 2016, LAUSD commissioned Waterstone Environmental, Inc., to conduct a Limited Soil Screening Investigation for the area designated as the Site, the area north of the football field, track and bleachers,

and the softball field. The purpose of the Limited Soil Screening Investigation was to assess the concentration of lead and arsenic levels in the soil at the Site.

The soil sampling program involved the collection of samples from 34 locations across the softball field, the northern property line, and the paved area. The samples were collected at various depths, for a total of 121 samples, analyzed for lead and arsenic using EPA Method 6020. Sixteen (16) locations contained arsenic concentrations above the DTSC background screening level of 12 milligrams per kilogram (mg/kg). Eleven locations contained lead concentrations above the DTSC screening level of 80 mg/kg.

In 2017, Jordan Downs Remediation Manager LLC commissioned Anderson Environmental to write a technical memorandum detailing a limited soil screening investigation conducted on the northwestern portion of the LAUSD Site. The purpose of the investigation was to determine the lateral extent of the TPH-impacted soil that was previously found on the JDRP property immediately north of the Site. The investigation tested for total petroleum hydrocarbons (TPHs) and Volatile Organic Compounds (VOCs) in the soil. Forty-seven samples were collected and analyzed from eight locations using EPA Method 8015 for TPH and EPA Method 8260B for VOCs. The analysis showed that no VOCs exceeded the regional screening levels. However, the maximum concentrations, locations, and depths of TPH detected during this investigation are as follows:

Gasoline Range Organics (GRO) – 2,180 mg/kg (property line sample 57.5N/695E/S at 15’ bgs),

Diesel Range Organics (DRO) – 20,300 mg/kg (sample from 50.5N/662E/DPT50 at 10’ bgs), and

Oil Range Organics (ORO) – 1,430 mg/kg (property line sample from 58N/670E/S at 10’ bgs.

Areas where TPH was detected at 5 feet bgs include 50.5N/662E/DPT50, 50N/695E/DPT66 and SSI-36 along the northern margin of the Site, and historical samples 58.3N/658E/S, 58.5N/696E/DPT61, 62N/656E/B and 62.4N/644E/B that were located on the adjacent JDRP site to the north. The concentrations found at a depth of 5 feet bgs at the property line and northwest of the property line with JDRP would indicate that the source was located north of the current property line of JDRP and the Site.

2.13 CURRENT SITE USES

The Site is an elongated area on the north side of David Starr Jordan Senior High School campus including the softball field and former tennis and basketball courts on the paved area north of the football field. LAUSD would like to restore the softball field, basketball and tennis court areas so they can be utilized by students again. Areas south of the Site include the remainder of the high school campus and associated structures (Figure 2).

2.14 SURROUNDING PROPERTY LAND USES

Adjacent land north of the Site is currently under construction as part of the Jordan Downs Redevelopment Project (JDRP). Atlas Iron and Metal Company, a metal recycler, is located to the east of the Site and the Jordan Downs Public Housing apartments are located to the west (See Figure 2). The JDRP property immediately north of the Site underwent the removal and disposal of 259,375 tons of Contaminant Of Concern (COC)-impacted soils between May 2015 and October 2016 with oversight from the DTSC. The COCs included metals, polychlorinated biphenyls (PCBs) and TPH in the diesel and oil ranges.

The Atlas Iron and Metal Company property has land use restrictions that were enacted in 2008 by the DTSC due to high concentrations of copper, lead and zinc found in waste piles and in fill material formerly located near the Atlas/LAUSD boundary. Approximately 1,948 tons of soil was removed from the Atlas property in September 2006 with oversight from the DTSC.

3. Environmental Setting

Knowledge of the Site environmental setting is essential for evaluating the actual or predicted migration of contaminants through soil, water, and air pathways.

3.1 FACTORS RELATED TO SOIL EXPOSURE PATHWAYS

Factors related to contaminant transport via soil pathways are the local topography, which controls surface water run-on and run-off, and soil type and geology, which control infiltration and vapor phase migration within the unsaturated (i.e., vadose) zone. Natural and manmade barriers/controls can minimize or prevent contaminant movement into and within the soil column. In some instances, they also provide protection against direct contact with hazardous substances that might be present at a site.

3.1.1 Topography

The Site is located within the U.S. Geological Survey, 7.5-Minute Topographic Map, South Gate, California Quadrangle. Based on the survey conducted by Calvada Engineering, the Site ranges between 109.32 and 112.52 feet above msl. The topographic gradient in the vicinity of the Site slopes gently toward the south.

3.1.2 Geology

The Site is situated in the northwest portion of the Peninsular Ranges geomorphic province. The Site is reported to be underlain by Holocene to Late Pleistocene age deposits, which are composed of clay, silt, sand, and gravel along stream valleys and alluvial flats of larger rivers (Anderson Environmental, 2017b).

Based on boring logs prepared for this investigation, the Site is recorded as having a top layer fill material over much of the Site, extending to depths between 1 to 5 feet bgs. Fill material was noted mostly along the northern and eastern boundaries of the Site. Soils encountered during this investigation consisted of silt with interbedded sands, and silts to a depth of around 20 feet bgs. Beyond 20 feet bgs, the soil is described as silts with or without sand, poorly graded sand and silty sands.

3.1.3 Oil Fields and Natural Gas

Maps prepared by the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) were reviewed to determine whether petroleum or gas exploration and/or production have occurred on or near the Site. According to DOGGR, the Site is not located within a

designated oil or gas field. The nearest oil field, the Rosecrans Oil Field, is located approximately 3.2 miles southwest of the Site.

3.1.4 Site Accessibility and Controls

David Starr Jordan Senior High School and Animo College Preparatory Charter High School are operated as a "closed campus," meaning that visitors can only enter the campus by first encountering security controls. During the SSI field investigation, pedestrian traffic was light but occasionally included students using the athletic field. The western half of the Site is completely separated from the rest of the campus by chain-link fencing and is not accessible to the students.

The SSI project field manager and subcontractors were instructed to be vigilant as to the presence of occasional students and to prevent them from entering work areas when encountered. All work areas and drums of investigation-derived waste were visually inspected and secured at the end of the work day to ensure that students, staff, and visitors would not be exposed to any potential hazards during non-investigation hours.

3.1.5 Proximity to Nearby Receptors

Residential homes and apartment are located to the west of the Site. The Site itself is developed with a public high school and a charter high school. The SSI field investigation was conducted with consideration for these nearby sensitive receptors and public notices regarding the planned activities were distributed to parents of the high school students prior to beginning field work (see Section 4.3).

The Site and surrounding area do not support natural vegetation or provide native wildlife or habitat and ecologically sensitive species are not known to not exist within 1 mile of the Site.

3.2 FACTORS RELATED TO WATER PATHWAYS

Factors related to water pathways include the local hydrogeology, which defines the movement of contaminants within groundwater, and nearby surface waters, which can be impacted by runoff or flooding from a site.

3.2.1 Groundwater

The Site is located within the Central Sub-basin of the Coastal Plain of Los Angeles County, often referred to as the Central Basin, which is bounded on the north by a surface divide called the La Brea high, and on the northeast by emergent, less permeable Tertiary rocks of the Puente, Repetto, Elysian, and Merced Hills, on the southeast by the Orange County Groundwater Basin, and on the southwest by the Newport-Inglewood Fault System. The Central Basin is where the Los Angeles and San Gabriel Rivers drain inland and pass through before they reach the Pacific Ocean.

Groundwater within the Central Basin generally flows from north to south and west. The primary recharge occurs largely from surface inflow from percolation from rainfall, stream flow, and applied water from the San Gabriel Valley.

Groundwater was not encountered to the total depth explored during the current SSI (i.e., 40 feet bgs). According to information obtained from the SWRCB's GeoTracker website, uppermost groundwater is present at depths of approximately 71 feet bgs and flows in a southwesterly direction (Anderson, 2017).

3.2.2 Surface Water

The surface water body nearest to the Site is the Los Angeles River, which is located approximately 3.1 miles to the east. Stormwater drains as sheet flow to adjacent streets, where it is directed by curb and gutter systems to the City-maintained storm sewer system.

3.3 FACTORS RELATED TO AIR PATHWAYS

Climate within the Los Angeles Basin is influenced primarily by terrain and geographic location. For example, summer temperatures at the Los Angeles Civic Center average about 72°F, while cities relatively short distances to the north and east record average summer temperatures well above 90°F. The relatively close proximity to the ocean tends to moderate air temperatures, especially near the coast. Winter temperatures at the Los Angeles Civic Center average about 58°F.

The Los Angeles Basin is characterized as a semi-arid climatic region with an average annual rainfall of 14 to 18 inches. Most of the rainfall occurs during the months of December through March, typically associated with extra tropical cyclones of North Pacific origin. While precipitation during summer months does occur, it is infrequent. Rainless periods of several months are common in the Los Angeles area.

Wind speed and wind direction patterns in the Los Angeles Basin are dominated by diurnal daytime onshore flow and nighttime offshore flow. However, frontal storms and Santa Ana flow episodes frequently tend to break the diurnal onshore/offshore wind pattern cycle during the period of September through March. Overall, the basin experiences light, average wind speeds with little seasonal variation. A wind rose map prepared for South Coast Air Quality Management District (SCAQMD) Hawthorne Airport Station #3167 indicates that prevailing winds in the vicinity of the Site are generally from the west and typically average 5.5 miles per hour (mph) or less (SCAQMD, 2017).

4. Sampling Program

The following sections describe the sampling strategy, investigative methods and procedures, sample handling, decontamination procedures, and management of investigation-derived waste for the SSI field investigation. The SSI investigation was conducted under the direct supervision of the California licensed Professional Geologist whose certification and signature appear at the end of this report. Fieldwork was conducted June 8-18, July 12-19 and August 10-13, 2018. Representative photographs of various field activities are provided in Appendix A.

Site access and notification of school administrative personnel were coordinated with the LAUSD-OEHS Project Manager, the LAUSD Facilities Complex Plant Manager, and the school Plant Manager. Field services were supported by Goldak, Inc. (utility clearance), InterPhase Environmental, Inc. (drilling), and Calvada Surveying, Inc. (surveying).

4.1 SAMPLING STRATEGY AND RATIONALE

The SSI field program involved soil sampling to further investigate areas of potential concern previously identified by DTSC's soil screening and excavation activities targeting the neighboring Atlas Iron and Metal Company and former steel mill (JDRP) properties. The SSI field program also targeted areas of potential concern previously identified by LAUSD's limited soil screening investigations completed by Waterstone Environmental and JDRP's TPH plume delineation investigation completed by Anderson Environmental. The SSI field program also targeted the northern property line with the JDRP site where 259,375 tons of impacted soil were removed and disposed of during the course of development activities. Sample locations, sample depths, analytical parameters, and sampling rationale are described in Table 1; sample locations are shown on Figures 3a through 3f and 4:

- Lead and Arsenic from Former Steel Mill Operations and Historical Operations at Metal Recycling Facility – Soil samples collected from 270 borings described on Table 1 were analyzed for arsenic and/or lead to assess for potential impacts associated with the former laydown yard that previously existed on the Site.

- TPH from Unknown Source on JDRP Site – Soil samples collected from six (6) borings near the northwest portion of the Site were analyzed for TPH to delineate the area of impacted soil that previous investigations had identified.

- Four (4) borings were advanced to collect both shallow lead/arsenic samples and to collect TPH samples to further delineate both the TPH plume and former laydown yard area in the northwest portion of the Site.

4.2 PRELIMINARY SCREENING LEVELS

Analytical results for the soil samples were compared with preliminary screening levels to determine if the analyte represented a constituent of potential concern (COPC) at the Site. Preliminary screening levels used for the various chemical constituents represented by the laboratory test methods are described in the following sections.

4.2.1 Arsenic

Preliminary Screening Level: 12 mg/kg

Arsenic has proven problematic in the evaluation of school sites, since the risk-based soil concentration of approximately 0.03 mg/kg is nearly always below the concentrations detected at a site. Therefore, the DTSC conducted a statistical evaluation of nineteen LAUSD school sites and five southern California counties to determine the level of arsenic that is representative of background concentrations (DTSC, 2008). The term "background" collectively referred to both naturally-occurring and anthropogenic sources of arsenic in shallow soil. The study determined that an arsenic concentration of 1.5 mg/kg most likely represents the upper bound concentration of naturally-occurring arsenic, while a concentration of 12 mg/kg represents the upper bound concentration of naturally-occurring plus anthropogenic arsenic. Based on this study, the DTSC currently uses an arsenic concentration of 12 mg/kg as a screening level for new school sites. The DTSC-approved HACLA residential screening level for arsenic in soil at JDRP was 17.5 mg/kg.

4.2.2 Lead

Preliminary Screening Level: 80 mg/kg

Adverse health effects associated with exposure to lead have been correlated with concentrations of lead in whole blood, rather than with intake of lead by an individual. The US Centers for Disease Control considers a blood lead level of 10 micrograms/deciliter (µg/dl) to be cause for concern. The DTSC used this criterion for toxicity evaluations until 2007, when the California Environmental Protection Agency (CalEPA) Office of Environmental Health Hazard Assessment (OEHHA) developed a new criterion based on a source-specific "benchmark change" of 1 µg/dl, which is the estimated incremental increase in children's blood lead that would reduce their Intelligence Quotient (IQ) by up to 1 point. Using this new approach, CalEPA established a preliminary remediation goal (action level) of 80 mg/kg for lead in soil (CalEPA, 2009). This standard represents the concentration of lead in soil that will result in a 90th percentile estimate of a 1 µg/dl increase in blood lead in the most sensitive receptor (i.e., child or fetus).

The DTSC Office of Human and Ecological Risk (HERO) has implemented the risk-based soil concentration as a residential land use scenario exposure point concentration, calculated as the 95 percent upper confidence limit of the arithmetic mean (95% UCL) of 80 mg/kg or less for lead in soil (DTSC, 2013a). With regard to the assessment of lead risk, if sufficient data are available, HERO recommends calculating the 95% UCL lead concentration for each exposure area. If individual samples exceed 80 mg/kg, the exposure would be still be acceptable as long as the 95% UCL is below 80 mg/kg and hot spots or data outliers are not present. The DTSC-approved HACLA residential screening level for lead in soil at JDRP was 315 mg/kg.

4.2.3 Total Petroleum Hydrocarbons

Preliminary Screening Level: (Los Angeles RWQCB Screening Levels and San Francisco Bay RWQCB Shallow Soil Odor Nuisance Levels; refer to table below)

Total petroleum hydrocarbon concentrations in the gasoline and diesel ranges were compared to San Francisco Bay Regional Water Quality Control Board (RWQCB) levels (commercial/industrial exposure scenario) and oil ranges were compared to Los Angeles RWQCB screening levels developed for the protection of human health (residential exposure scenario) and groundwater. Relevant screening levels for TPH in soil are summarized in the table below.

Soil Screening Levels for TPH

TPH Carbon Chain Range	Screening Levels
	SL (mg/kg)
TPH-gasoline	500[1]
TPH-diesel	1,000[1]
TPH-oil	10,000[2]

1-RWQCB-SFB Commercial/Industrial Odor Nuisance Level from *Environmental Screening Levels Workbook, ESLs, Interim Final*, February 2016 (rev. 3).
2-RWQCB-LA SL = Los Angeles RWQCB Screening Level from *Interim Site Assessment & Cleanup Guidance*, Table 4-1, April 27, 2004 (assumes groundwater is 20-150 ft bgs).
NA = not available

The approved HACLA screening level for TPH-d in soil at JDRP was also 1,000 mg/kg.

4.3 PRE-FIELD ACTIVITIES

Work Notice: Prior to initiating field work, a SSI Work Notice was prepared in English and Spanish. The purpose of the notice was to advise the public of the nature of the SSI field program, the schedule of activities, and individuals who could be contacted for additional information. The notice was mailed to approximately 473 parents of David Starr Jordan Senior High School students and key contacts on June 1, 2018. On June 4, 2018, approximately 550 copies of the notice were hand delivered to the office of Animo College Preparatory High School for distribution to students and staff, and laminated copies were

posted on fencing along the school perimeter. Copies of the SSI Work Notice and supporting documentation for these public participation activities are provided in Appendix B.

Health and Safety Plan: A site-specific Health and Safety Plan (HASP) was prepared as a final pre-field activity for use during the field investigation. The HASP was prepared in accordance with applicable Occupational Safety and Health Administration (OSHA) regulations, as outlined in Title 8 of the California Code of Regulations (i.e., "General Industry and Construction Safety Orders" [Section 5192]), Title 29 of the Code of Federal Regulations (i.e., "Standards for Hazardous Waste Operations and Emergency Response" [Section 1910.120] and "Construction Industry Standards" [Section 1926]), and other applicable federal, state and local laws and regulations. The HASP was intended to aid in the safe handling of soils potentially containing elevated levels of constituents of concern. It was designed to: 1) identify and describe potentially hazardous substances that may be encountered during field activities; 2) specify protective equipment for on-site activities; 3) specify personnel decontamination procedures; and 4) outline measures to be implemented in the event of an emergency.

All on-site activities were performed by individuals with appropriate training (CFR 1910.120). Personnel, including subcontractors, were briefed on job health and safety measures and were responsible for operating in compliance with the HASP. A designated project Health and Safety Officer (HSO) was responsible for maintaining compliance with the HASP. Daily tailgate health and safety meetings were held and meeting participation was documented in field forms that are maintained with project records. During field activities, personnel within the exclusion zone wore personal protective equipment (PPE) equivalent to OSHA Level D. No incidents or emergency actions occurred during implementation of the SSI field program. The HASP is included in Appendix C.

Utility Clearance: Underground Service Alert (USA) was contacted on June 5, 2018 with a request to identify underground utilities entering the Site from beneath surrounding streets and sidewalks (USA ticket A181561190). Follow-up work in July and August was conducted under USA ticket A181910756.

Tentative sample locations were marked with paint (hardscape areas) or survey flags (landscape areas) in accordance with the SSI Workplan (LAUSD, 2017). Goldak, Inc. (Sylmar, California), a private utility search firm, then checked the surrounding areas for subsurface utility lines and potential obstructions using geophysical instruments (e.g., magnetometer, electromagnetic induction, ground penetrating radar, etc.). If utilities were identified in close proximity to the marked sample location, it was relocated a safe distance away. Coring and drilling were allowed only after the absence of underground utilities had been confirmed at each location.

4.4 SAMPLING PROCEDURES

The SSI field investigation involved the collection of soil samples. The procedures used for sample collection are described in the following sections.

4.4.1 Soil Sample Collection

Some of the borings were located in asphalt-paved areas that required coring before soil samples could be collected. Once the sample locations had been cleared and cored, the borings were advanced using a hand auger or direct-push drill rig. Coring and drilling services were provided by Interphase Environmental, Inc. (InterPhase; Los Angeles, California).

A hand auger was used to complete the shallow borings for the initial work in June to varying depths. The hand auger equipment consisted of a stainless-steel earth auger attached to a T-bar that was used to rotate and advance the auger. Once the desired sampling depth was reached, the contents of the auger were transferred into a clean 4-ounce glass jar provided by the laboratory.

A track-mounted, Geoprobe® direct-push drill rig was used to complete the July and August work scope, along with the ten deep borings (A, B, C, SSI-34, SSI-36, and SSI-47 through SSI-51) to a maximum depth of 40 feet bgs, with soil samples typically being collected at five-foot intervals. Direct-push sampling was conducted by driving a drill rod core barrel into the soil subsurface using a hydraulic hammer. As the drill rod was advanced, soil was driven into a 1.5-inch diameter by 4-foot long clear acetate sleeve housed in the core barrel. Soil samples were inspected by the field geologist for general soil conditions and evidence of contamination (e.g., odors or staining). Boring logs are included in Appendix D.

Labels were applied to the outside of the glass jars and sample sleeves with the sample identification number (which contains the boring number and sample depth) and date and time of collection. Following labeling, soil samples were placed in clear, leak-resistant plastic bags, which were stored in a sample cooler with ice until delivery to the laboratory could be arranged.

Sampling equipment was decontaminated between borings and sample locations in accordance with the procedures described in Section 4.5. Soil cuttings and decontamination water generated during drilling were placed in United Nations (UN)-rated 55-gallon drums, properly labeled, and temporarily stored in a secure area of the Site pending off-site disposal (see Section 4.6). All borings were backfilled with bentonite and clean, construction-grade sand and, if necessary, patched to match the existing pavement. It was assumed that the patched pavement would remain visible and allow the original borings to be located in the event that follow-up step-out sampling was required. For open, unpaved areas where no such visual cues were present, boring locations were referenced to permanent landmarks and/or the use of pin flags. The initial June borings were surveyed by Calvada Surveying, Inc. and the survey data are included in Appendix E.

4.4.2 Step-Out Soil Sampling

Upon receipt of analytical results from initial soil sample locations, step-out samples were collected at locations where arsenic concentrations exceeded the screening level of 12 mg/kg in 30 of the initial soil borings, and lead concentrations exceeded the screening level of 80 mg/kg in six of the initial soil

borings. Step-out and step-down samples were collected at each of these boring locations in an effort to delineate the lateral extent of arsenic- and lead-impacted soil. Step-out sample locations are shown on Figures 3a through 3f.

Step-out sample locations were marked in the field and cleared of subsurface utilities in preparation for additional soil sampling on July 11, 2018 and again on July 27, 2018. In general, step-out locations were selected in two to three directions and two distances (5 and 10 feet) from the original samples. However, field conditions (e.g., obstructions, utilities, etc.) dictated the final step-out numbers and locations. Step-out samples were assigned identifications based on the center sample ID with an added letter on the end. Since the initial June sample locations of the SSI already used letters as compass directions (i.e., N for north, S for south, E for east and W for west), the extra letter on the end started at A in the inner circle and skipped E. For example, for the step-outs around sample **SSI-7-S**, the inner three locations located 5 feet away from the center were **SSI-7-S-A** through **SSI-7-S-C**, and the outer three locations located 10 feet away from the center were **SSI-7-S-D**, **SSI-7-S-F** and **SSI-7-S-G**.

At each step-out location, soil samples were collected at varying depths using a Geoprobe. Soil samples collected at a depth of 0.5-foot bgs from the 5-foot step-out borings were immediately analyzed for arsenic and/or lead (USEPA Methods 6020 and 6010B), while the remaining samples were archived by the laboratory for possible follow-up analysis. In instances where the arsenic or lead concentrations in the initial step-out samples exceeded site-specific cleanup goals, additional archived samples were analyzed in an effort to bind the lateral and vertical extents of the impacted soil. Step-out/step-down sampling continued until arsenic and lead concentrations were found to be below site-specific cleanup.

4.5 SSI SAMPLING PROGRAM

The SSI sampling program is summarized below:

- From June 11 through 14, 253 soil samples plus 23 duplicates were collected using a hand auger or a Geoprobe.
- From July 12 through 19, 630 soil samples plus 36 duplicates were collected using a Geoprobe.
- On August 10 and 13, 91 soil samples plus four duplicates were collected using a Geoprobe, bringing a grand total of 974 soil samples plus 63 duplicates collected for the SSI, of which approximately 43 percent of the primary soil samples and 44 percent of the duplicate samples were archived by the laboratory for contingent follow-up analysis.
- Thirty-eight (38) soil samples plus four duplicates were collected from the northwest corner of the Site and analyzed for total petroleum hydrocarbon (TPH) chains in the gasoline, diesel and oil ranges.

- One hundred and forty-three (143) soil samples plus 14 duplicates were analyzed for lead by EPA Method 6020.
- Four hundred and seventy (470) soil samples plus 29 duplicates were analyzed for arsenic by EPA Method 6020.
- Fifty-five (55) soil samples were analyzed for arsenic Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) by EPA Method 6010B.
- Thirty-two (32) soil samples were analyzed for lead STLC and TCLP by EPA Method 6010B.

4.6 EQUIPMENT DECONTAMINATION

Hand augers, drill rods, and other non-disposable sampling equipment were decontaminated between borings and sample locations to reduce the potential for contaminant introduction and cross-contamination. Equipment decontamination was performed in accordance with industry-standard procedures, as follows:

- Non-phosphate detergent and distilled water wash using a brush
- Initial distilled/deionized water rinse
- Final distilled/deionized water rinse.

4.7 INVESTIGATION-DERIVED WASTE MANAGEMENT

Spent acetate sample sleeves and used PPE were disposed of as Class III solid waste. Soil cuttings and decontamination water were collected in properly labeled UN-rated 55-gallon drums that have been temporarily stored in a secure area of the Site, as directed by the school Plant Manager. All drums have been disposed of in accordance with State and local laws and regulations. Copies of the waste manifests are included in Appendix F.

One liquid sample was collected from the drum of decontamination water and one composite soil sample was collected from the drums of soil cuttings for waste profiling purposes. The samples were submitted to American Environmental Testing Laboratory, Inc. (AETL) for analysis of TPH-cc (USEPA Method 8015M), VOCs (USEPA Method 8260B), organochlorine pesticides (USEPA Method 8081) and Title 22 metals (USEPA Methods 6010B/7471). A copy of the laboratory report is provided in Appendix G. Based on the analytical results for the waste profile samples, as well as the analytical results from the SSI investigation, the investigation-derived waste (IDW) was characterized as non-hazardous for waste disposal purposes. The waste profile was approved by the LAUSD Environmental Compliance Manager and the receiving facilities and the IDW was transported off-site for lawful disposal.

4.8 LABORATORY PROCEDURES

Soil samples were submitted to American Environmental Testing Laboratory, Inc. (AETL; Burbank, California) for chemical analysis under chain-of-custody control. AETL is accredited by the California Department of Public Health (CDPH) Environmental Laboratory Accreditation Program (ELAP Certification No. 1541). Initially for the arsenic and lead samples, only the shallowest samples were analyzed, while the deeper samples were archived by the laboratory. After reviewing the analytical results, follow-up analyses were performed on several of the archived samples to better define the vertical extent of impacted soil at a given location.

Soil samples targeting elevated lead and/or arsenic were analyzed for one or both the following parameters in accordance with the schedule presented in Table 1:

- Arsenic by USEPA Method 6020
- Lead by USEPA Method 6020

Soil samples from the deep borings were analyzed for the following parameters in accordance with the schedule presented in Table 1:

- TPH-cc by USEPA Method 8015M

Soil samples with arsenic and/or lead results over 50 mg/kg were also analyzed for:

- Soluble Threshold Limit Concentration (STLC) and Toxicity Characteristic Leaching Procedure (TCLP) by USEPA Method 6010B.

4.9 QUALITY ASSURANCE/QUALITY CONTROL

The following quality assurance/quality control (QA/QC) procedures were followed during soil sampling and analysis:

- Duplicate soil samples were collected and analyzed at a frequency of approximately 10 percent of the primary samples to evaluate statistical precision. The duplicate soil samples were analyzed for the same parameters as the primary samples. They were collected as “blind” samples so that the laboratory did not know the primary sample pairing. Analytical results for the duplicate soil samples are paired with the primary sample results in the SSI data summary tables.
- All soil samples were transferred to the laboratory under chain-of-custody control and were subject to the laboratory’s conventional QA/QC analytical procedures, including the use of method blanks, surrogate recoveries, matrix spike samples, laboratory control samples, and/or duplicate analyses.

- All samples were properly preserved and analyzed within holding times prescribed for individual test methods.
- Laboratory detection limits for individual chemical constituents were set at appropriate levels to allow for comparison of the data with preliminary screening levels and otherwise meet SSI program objectives.

PlaceWorks reviewed the field procedures and laboratory reports and determined that all of the data were reliable and useable for meeting project objectives.

5. Investigation Results

The following sections present the SSI investigation findings and discuss their significance with respect to potential impacts on human health and the environment.

5.1 ANALYTICAL RESULTS

Analytical results for the SSI field investigation are summarized and discussed in the following sections. The analytical data are compiled in Tables 2 and 3. Copies of laboratory reports and chain-of-custody records are provided in Appendix G.

5.1.1 Arsenic

A total of 470 soil samples and 29 duplicate samples were analyzed for arsenic by USEPA Method 6020. The analytical results are provided in Table 2. As indicated in this table, arsenic concentrations ranged from 0.934 mg/kg to 226 mg/kg (SSI-30-S-24"). Arsenic concentrations in 30 of the initial borings exceeded the preliminary screening level of 12 mg/kg, prompting follow-up analysis of deeper archived samples, step-out samples and sometimes step-down sampling to establish the lateral and vertical extent of arsenic-impacted soil.

As discussed in Section 4.4.2, step-out soil samples were collected at all of the locations where arsenic exceeded the screening level of 12 mg/kg in an effort to define the lateral extent of arsenic-impacted soil. In total, 182 soil samples (plus nine duplicate samples) had arsenic concentrations above the DTSC background screening level of 12 mg/kg. The deepest soil sample with a concentration of arsenic above 12 mg/kg was SSI-14-C-180" or 15 feet bgs at the northern property boundary with JDRP.

Fifty-five (55) soil samples with arsenic concentrations at or greater than 50 mg/kg were analyzed for soluble arsenic by STLC and TCLP by USEPA Method 6010B to determine whether the soil would need to be managed as a hazardous waste if excavated and removed. Analytical results are summarized in Table 2; copies of the laboratory reports are provided in Appendix G.

As indicated in Table 2, because the TCLP arsenic concentrations did not exceed the 5 mg/L regulatory threshold, soil excavated at the Site would not need to be managed as a RCRA hazardous waste. However, 13 soil samples qualified as a California Regulated hazardous waste as summarized in Table 2. The 13 soil samples that qualified as California Regulated hazardous waste were collected from seven locations with depths ranging between 6 and 48 inches (four feet) bgs. Most of these locations are along the northern Site boundary.

5.1.2 Lead

A total of 143 soil samples and 14 duplicate samples were analyzed for lead by USEPA Method 6020. The analytical results are provided in Table 2. As indicated in this table, lead concentrations ranged from non-detect (less than reporting limit of 0.25 mg/kg) to 1,220 mg/kg (SSI-32-A-6"). Lead concentrations in six of the initial borings exceeded the preliminary screening level of 80 mg/kg, prompting the follow-up analysis of deeper archived samples, step-out samples and sometimes step-down sampling to establish the lateral and vertical extent of lead-impacted soil.

As discussed in Section 4.4.2, step-out soil samples were collected at all of the locations where lead exceeded the screening level of 80 mg/kg in an effort to define the lateral extent of lead-impacted soil. In total, 32 soil samples (plus one duplicate sample) had lead concentrations above the DTSC background screening level of 80 mg/kg. The deepest soil sample with a concentration of lead above 80 mg/kg was SSI-45-C-36" (three feet) bgs near the eastern boundary with Atlas.

Thirty-two (32) of the soil samples with lead concentrations at or greater than 50 mg/kg were analyzed for soluble lead by STLC and TCLP by USEPA Method 6010B to determine whether the soil would need to be managed as a hazardous waste if excavated and removed. Analytical results are summarized in Table 2; copies of the laboratory reports are provided in Appendix G.

Analytical results indicated that the TCLP lead concentrations did not exceed the 5 mg/L regulatory threshold. Soil excavated at the Site would not need to be managed as a RCRA hazardous waste. However, nine soil samples qualified as a California Regulated hazardous waste for lead as summarized in Table 2. The nine soil samples that qualified as California Regulated hazardous waste were collected from nine locations with depths ranging between 6 and 36 inches below ground surface. These locations are along the northern, eastern and western Site boundaries.

5.1.3 Total Petroleum Hydrocarbons

A total of 38 soil samples and four duplicate samples were analyzed for total petroleum hydrocarbons in the gasoline range (TPH-g), diesel range (TPH-d), and oil range (TPH-o) by USEPA Method 8015M. The analytical results are provided in Table 3. Five soil samples in this investigation had TPH-d concentrations above the San Francisco Bay RWQCB level of 1,000 mg/kg. TPH-d was detected at a maximum concentration of 6,220 mg/kg (Table 3). The deepest soil samples with a concentration of TPH-d above 1,000 mg/kg at the Site were at 20 feet bgs for borings A and SSI-36 during this investigation, and also historically at JDRP borings 30N/695E/DPT70, 50N/695E/DPT66 and 50.5N/662E/DPT50 from the previous limited investigation by Anderson Environmental. The highest concentration of TPH in shallow soil was limited to the property boundary area with JDRP (Figure 5). This would indicate that the source area was located at the JDRP-LAUSD property boundary or north of the JDRP-LAUSD property boundary (Figures 6a, 6b and 6c). Areas where TPH was detected at 5 feet bgs include 50.5N/662E/DPT50,

50N/695E/DPT66 and SSI-36 along the northern margin of the Site, and historical samples 58.3N/658E/S, 58.5N/696E/DPT61, 62N/656E/B and 62.4N/644E/B that were located on the adjacent JDRP site.

5.2 DISCUSSION OF RESULTS

The analysis of soil samples from this investigation and from the previous limited investigation at the Site completed by Anderson Environmental in 2017 determined that concentrations of TPH-d were above levels of environmental concern. Therefore, a removal action of soil with TPH-d at or greater than 1,000 mg/kg is recommended (see Section 4.2.3).

Arsenic was detected above the preliminary screening level of 12 mg/kg at 182 locations, with a maximum reported concentration of 226 mg/kg. Step-out and step-down sampling was conducted in an effort to define the lateral and vertical extents of arsenic-impacted soil. Lead was detected above the preliminary screening level of 80 mg/kg at 32 locations, with a maximum reported concentration of 1,220 mg/kg. Step-out and step-down sampling was conducted in an effort to define the lateral and vertical extents of lead-impacted soil. Based on the findings of the SSI, removal actions at the locations of arsenic and lead-impacted soil and areas with TPH-d at or greater than 1,000 mg/kg are recommended (see Section 4.2.3).

95% Upper Confidence Level (95% UCL) concentrations were calculated for metals results from this investigation, and for combined TPH results from this investigation and the Anderson Environmental investigation from 2017 (Tables 4 and 5). The 95% UCL concentration for arsenic was 22.27 mg/kg, above the preliminary screening level of 12 mg/kg (Table 4). The 95% UCL concentration for lead was 73.21 mg/kg, below the preliminary screening level of 80 mg/kg (Table 4). The 95% UCL concentrations of TPH-g, TPH-d and TPH-o of the combined results of this investigation and Anderson Environmental (2017) are 93.98 mg/kg, 1,877.80 mg/kg and 138.48 mg/kg, respectively (Table 5). Only the TPH-d 95% UCL concentration exceeds the respective RWQCB-SF Commercial Level of 1,000 mg/kg.

5.3 DELINEATION OF AREAS OF IMPACTED SOIL

Forty-five (45) areas of impacted soil were identified during the field investigations. The areas are identified by their original SSI boring designations as follows: 2, 3, 3-N/59, 4, 4-N/61, 5/5-N, 6, 6-E/6-N/10-S, 6-S, 7, 7-N, 7-S, 8, 8-E, 10, 12, 12-S/13-S, 13, 13-W, 14/14-E/16, 14-S, 15, 17, 17-W, 18, 18-W, 19, 28, 29, 30, 30-N/56, 30-S, 30-W, 31, 31-E, 31-N, 32/33-S, 34, 36, 38, 40, 42, 43, 45/64 and 46. The locations of the areas of impacted soil are shown on Figure 7. To ensure the safety and health of school students, staff, and visitors, PlaceWorks recommends that impacted soil at each of the identified locations be removed and transported off-site for proper disposal.

Step-out and step-down sampling conducted as a component of the field investigation largely delineated the lateral and vertical extents of TPH, arsenic and lead-impacted soil and allowed the definition of discrete soil removal areas. Many soil removal areas are bounded on one side by property boundaries.

5. Investigation Results

The Site is currently bordered by concrete walls on the east, west and on the north by a newly constructed block wall built by JDRP during the summer of 2018. Excavation adjacent to these walls could potentially destabilize them. As such, discussion with adjoining property owners may be necessary to determine the most effective way to remove the soil with worker safety in mind.

Eight areas were identified with concentrations of arsenic and lead in soil that were determined to be California Regulated hazardous waste. The eight areas range in depth from 6 inches to 48 inches (four feet) below ground surface and are listed below:

- The SSI-7-N-D is estimated to be 5 feet square with a depth of 18 inches for an in-situ volume of 1.39 cubic yards.
- The SSI-14-A is estimated to be five feet square with a depth of 48 inches for an in-situ volume of 3.70 cubic yards.
- The SSI-15 is estimated to be 20 feet long by 10 feet wide with a depth of 36 inches for an in-situ volume of 22.2 cubic yards.
- The SSI-30-S is estimated to be 15 feet long by 10 feet wide with a depth of 24 inches for an in-situ volume of 11.1 cubic yards.
- The SSI-32 is estimated to be 20 feet long by 10 feet wide with a depth of 6 inches for an in-situ volume of 3.70 cubic yards.
- The SSI-34 is estimated to be 15 feet long by 10 feet wide with a depth of 18 inches for an in-situ volume of 8.33 cubic yards.
- The SSI-38 is estimated to be 15 feet long by 10 feet wide with a depth of 6 inches for an in-situ volume of 2.78 cubic yards.
- The SSI-45-C is estimated to be 20 feet long by 10 feet wide with a depth of 36 inches for an in-situ volume of 22.2 cubic yards.

Based on field measurements, the 45 areas represent a total in-situ volume of approximately 3,485 cubic yards of arsenic and lead-impacted and elevated TPH soil that require removal and off-site disposal. A total of approximately 3,409 cubic yards of soil can be managed as non-hazardous waste, while the remaining 75.4 cubic yards will require management as California Regulated hazardous waste. The areas with California Regulated hazardous waste soil are shown on Figure 8.

6. Field Variances

The SSI was conducted in accordance with the procedures outlined in the SSI Workplan (PlaceWorks, 2017). Soil samples were collected from a total of 280 boring locations. Encountered field conditions resulted in a few deviations from the planned activities, as described below:

- Investigation locations around existing structures were adjusted to account for observed obstructions (e.g., irrigation lines, utilities, etc.). Patched pavement suggestive of subsurface utilities and recent utility markings were also avoided. In some instances, further adjustments to investigation locations were made to provide an adequate separation distance from utility lines identified by the geophysical survey. Final investigation locations are shown on Figures 3a through 3f and 4.

- Additional soil samples were collected and archived by the laboratory at the request of the LAUSD Project Manager in order to prevent the need for additional follow-up sampling events.

- Five additional borings were added at the request of the LAUSD Project Manager along the eastern perimeter of the Site during the June sampling event. Additional borings were also requested for intensifying spatial coverage of data.

- Due to time constraints and the large quantity of samples to be collected, the field work conducted in July and August utilized a Geoprobe and not a hand auger. The samples collected by Geoprobe were prepared with the same attention to the SSI objectives as the ones collected by hand auger.

7. Human Health Screening Evaluation

This section presents the human health screening evaluation (HHSE) portion of the SSI. The HHSE evaluates potential impacts to human health from exposure to the COPCs detected in soil at the Site. Per the *PEA Guidance Manual* (DTSC, 2013b), the HHSE is performed within the context of a health risk assessment that addresses an unrestricted future residential land-use scenario, which is more health-protective than the existing and continued use of the Site as a school.

Based on the analytical results for soil sampling presented in Section 5.2, TPH, arsenic and lead are the only COPCs that are present at the Site. TPH was detected at a maximum concentration of 2,180 mg/kg for TPH-g, 20,300 mg/kg for TPH-d, and 460 mg/kg for TPH-o. A preliminary screening level of 1,000 mg/kg for TPH-d has been proposed at the Site based on the commercial/industrial level developed by the RWQCB-SFB. Arsenic was detected at a maximum concentration of 226 mg/kg, while lead was detected at a maximum concentration of 1,220 mg/kg. Health risk and hazard estimates associated with human exposure to these two metals are embedded in the decisions used to establish their preliminary screening levels of 12 mg/kg and 80 mg/kg, respectively. Any concentrations above the preliminary screening levels are deemed to pose an unacceptable health risk. Because TPH, arsenic and lead were detected above their respective preliminary screening levels, the COPCs pose an unacceptable health risk and further action in terms of a remedial response is required.

For screening purposes, 95% UCL concentrations were calculated for the COPCs. The 95% UCL concentration for arsenic was 22.27 mg/kg, above the preliminary screening level of 12 mg/kg (Table 4). The 95% UCL concentration for lead was 73.21 mg/kg, below the preliminary screening level of 80 mg/kg (Table 4). The 95% UCL concentrations of TPH-g, TPH-d and TPH-o of the combined results of this investigation and the historical JDRP investigation by Anderson Environmental (2017) are 93.98 mg/kg, 1,877.80 mg/kg and 138.48 mg/kg, respectively.

For reference, clean-up levels previously approved by DTSC for the adjacent residential property at the JDRP project include TPH-d at 1,000 mg/kg, arsenic at 17.5 mg/kg and lead at 315 mg/kg.

8. Conclusions and Recommendations

The SSI was designed to determine the lateral and vertical extent of impacted soil with elevated concentrations of arsenic, lead and TPH at the Site. These soil impacts were related to the historic operations of the Site as a laydown yard and historic operations of the adjacent properties located north and east of the Site. The SSI field program consisted of the completion of 280 soil borings to a maximum depth of 40 feet bgs. The soil samples were analyzed for lead, arsenic, and TPHs, depending on location and investigation purpose. Sample locations are shown on Figures 3a through 3f and 4. Analytical results are summarized in Tables 2 and 3.

8.1 CONCLUSIONS

After evaluating the analytical results, PlaceWorks concludes the following with respect to conditions at the Site:

- TPH in gasoline, diesel, and oil carbon chain ranges were previously detected above 10,000 milligrams per kilogram during the limited soil screening investigation conducted by Anderson Environmental on behalf of JDRP to delineate the TPH plume. During this investigation TPH-d was detected at two locations above 1,000 milligrams per kilogram. The southern portion of the JDRP plume was delineated with the highest concentrations of TPH limited to the property boundary with JDRP. The shallow concentrations of TPH at the northern boundary with JDRP would indicate that the source was located north of the current property line of the Site.

- Arsenic was detected above its preliminary screening level of 12 mg/kg in 182 soil samples from 108 locations, with a maximum reported concentration of 226 mg/kg. Step-out and step-down sampling was conducted in an effort to define the lateral and vertical extent of arsenic-impacted soil. Soluble arsenic test results (TCLP and STLC) determined that approximately 38 cubic yards will require management as California Regulated hazardous waste. The deepest soil sample with a concentration of arsenic above 12 mg/kg was SSI-14-C-180" or 15 feet bgs at the northern property boundary with JDRP. The four areas that have been delineated as California Regulated hazardous waste for arsenic are located along the northern boundary of the Site and on the west side of the bleachers north of the track:

    - The SSI-7-N-D area is estimated to be 5 feet square with a depth of 18 inches for an in-situ volume of 1.39 cubic yards.

  - The SSI-14-A area is estimated to be five feet square with a depth of 48 inches for an in-situ volume of 3.70 cubic yards.
  - The SSI-15 area is estimated to be 20 feet long by 10 feet wide with a depth of 36 inches for an in-situ volume of 22.2 cubic yards. SSI-15 will also require management as California Regulated hazardous waste for lead.
  - The SSI-30-S area is estimated to be 15 feet long by 10 feet wide with a depth of 24 inches for an in-situ volume of 11.1 cubic yards.

- Lead was detected above its preliminary screening level of 80 mg/kg in 32 soil samples from 15 locations, with a maximum reported concentration of 1,220 mg/kg. Step-out and step-down sampling was conducted around six of the locations in an effort to define the lateral and vertical extent of lead-impacted soil. Soluble lead test results (TCLP and STLC) determined that approximately 37 cubic yards will require management as California Regulated hazardous waste. The deepest soil sample with a concentration of lead above 80 mg/kg was SSI-45-C-36" near the eastern boundary with Atlas Iron and Metal Company. The four areas that have been delineated as California Regulated hazardous waste for lead are located along the northern, eastern and western boundaries of the Site:
  - The SSI-32 area is estimated to be 20 feet long by 10 feet wide with a depth of 6 inches for an in-situ volume of 3.70 cubic yards.
  - The SSI-34 area is estimated to be 15 feet long by 10 feet wide with a depth of 18 inches for an in-situ volume of 8.33 cubic yards.
  - The SSI-38 area is estimated to be 15 feet long by 10 feet wide with a depth of 6 inches for an in-situ volume of 2.78 cubic yards.
  - The SSI-45-C area is estimated to be 20 feet long by 10 feet wide with a depth of 36 inches for an in-situ volume of 22.2 cubic yards.

- Field procedures and laboratory data were evaluated to assure that data quality objectives were met and the data were suitable for their intended use. No significant quality assurance/quality control issues were identified.

- Based on the SSI objectives and the results of this SSI, PlaceWorks has determined that elevated concentrations of TPH, arsenic and lead are present in Site soil that require a remedial response to ensure the health and safety of staff, students, and visitors to the existing high school. TPH, arsenic and lead-impacted soil has been identified at 45 discrete locations, representing an estimated in-situ volume of 3,485 cubic yards, consisting of approximately 3,409 cubic yards of non-hazardous waste

and eight excavation areas consisting of approximately 75.4 cubic yards of California Regulated hazardous waste. Field procedures and laboratory data were evaluated to assure that data quality objectives were met and the data were suitable for their intended use. No significant quality assurance/quality control issues were identified.

8.2 RECOMMENDATIONS

PlaceWorks recommends that a Removal Action Workplan (RAW) be prepared to guide the excavation, transport, and off-site disposal of the arsenic and lead-impacted soil. The RAW should also include procedures for confirmation soil sampling, dust suppression, air monitoring, worker and student health and safety, data quality assurance and the potential use of land use restrictions in the areas adjacent to the property boundary walls. Once approved by the LAUSD, the RAW will be implemented in coordination with the school schedule and student activities.

Certification

On behalf of the Los Angeles Unified School District, PlaceWorks has prepared this Supplemental Site Investigation Report for the David Starr Jordan Senior High School. The Supplemental Site Investigation Report was prepared in a manner consistent with the level of care and skill ordinarily exercised by professional engineers, geologists, and environmental scientists, under the technical direction of the undersigned.

PlaceWorks:

Michael J. Watson, PG
Associate Geologist
Professional Geologist No. 8177
November 29, 2018

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9. References

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Tables

TABLE 1
SOIL SAMPLING AND ANALYSIS
SUPPLEMENTAL SITE INVESTIGATION
David Starr Jordan Senior High School
Los Angeles, California

Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
30N/645E/DPT68	A	horizontal delineation	120	10	TPH
			180	15	TPH
			240	20	TPH
			300	25	TPH
30N/675E/DPT69	B	horizontal delineation	120	10	TPH
			180	15	TPH
			240	20	TPH
			300	25	TPH
30N/645E/DPT68 30N/675E/DPT69	C	horizontal delineation	120	10	TPH
			180	15	TPH
			240	20	TPH
			300	25	TPH
JH-2	SSI-2	Vertical delineation	30	2.5	Pb
			42	3.5	Hold
	SSI-2-E	Horizontal delineation	18	1.5	Pb, STLC, TCLP
			30	2.5	Pb
			42	3.5	Hold
	SSI-2-S	Horizontal delineation	18	1.5	Pb
			30	2.5	Pb
			42	3.5	Hold
	SSI-2-W	Horizontal delineation	18	1.5	Pb
			30	2.5	Pb
			42	3.5	Hold
	SSI-2N/4S	Horizontal delineation	18	1.5	As, Pb
			30	2.5	As, Pb
			42	3.5	Hold

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-3	SSI-3	Vertical delineation	30	2.5	As
			42	3.5	Hold
	SSI-3E/4W	Horizontal delineation	18	1.5	As, Pb
			30	2.5	As, Pb
			42	3.5	Hold
	SSI-3-S	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-3-W	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-3-N	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	As
	SSI-3-N-A	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-3-N-B	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	As
	SSI-3-N-C	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	As
	SSI-3-N-D	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
			42	3.5	Hold
	SSI-3-N-F	Horizontal delineation	18	1.5	Hold
			30	2.5	As
			42	3.5	As, STLC, TCLP
		Vertical delineation	60	5	As
			90	7.5	Hold
			120	10	Hold
	SSI-3-N-G	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold

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Los Angeles, California

Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-4	SSI-4	Vertical delineation	30	2.5	As, Pb
			42	3.5	Hold
	SSI-4-N	Horizontal delineation	18	1.5	As, Pb
			30	2.5	As, Pb
			42	3.5	Hold
	SSI-4-N-A	Horizontal delineation	18	1.5	As
			30	2.5	As, STLC, TCLP
		Vertical delineation	60	5	As
			90	7.5	Hold
			120	10	Hold
	SSI-4-N-B	Horizontal delineation	18	1.5	As
			30	2.5	Hold
	SSI-4-N-C	Horizontal delineation	18	1.5	As
			30	2.5	Hold
	SSI-4-N-D	Horizontal delineation	18	1.5	As
			30	2.5	As
		Vertical delineation	60	5	As
			90	7.5	Hold
			120	10	Hold
	SSI-4-N-F	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
	SSI-4-N-G	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
	SSI-4E/5W	Horizontal delineation	6	0.5	As, Pb
			18	1.5	As, Pb
			30	2.5	As, Pb
			42	3.5	Hold

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JH-5	SSI-5-E	Horizontal delineation	0-1	0	As, Pb
			6	0.5	As, Pb
			24	2	Hold
	SSI-5-S	Horizontal delineation	0-1	0	As, Pb
			6	0.5	As, Pb, STLC, TCLP
			24	2	Hold
	SSI-5-N	Horizontal delineation	0-1	0	As, Pb
			6	0.5	As, Pb
			24	2	As
	SSI-5-N-A	Horizontal delineation	6	0.08	As
			18	1.5	As
			30	2.5	Hold
	SSI-5-N-B	Horizontal delineation	6	0.5	As
			18	1.5	As
			30	2.5	Hold
	SSI-5-N-C	Horizontal delineation	6	0.5	As
			18	1.5	As
			30	2.5	Hold
	SSI-5-N-D	Horizontal delineation	6	0.5	Hold
			18	1.5	As
			30	2.5	Hold
	SSI-5-N-F	Horizontal delineation	6	0.5	Hold
			18	1.5	As
			30	2.5	Hold
	SSI-5-N-G	Horizontal delineation	6	0.5	Hold
			18	1.5	As
			30	2.5	As

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-6	SSI-6	Vertical delineation	30	2.5	As, Pb
			42	3.5	Hold
	SSI-6-E	Horizontal delineation	18	1.5	As, STLC, TCLP, Pb
			30	2.5	As, Pb
			42	3.5	As
	SSI-6-E-A	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	As
		Vertical delineation	60	5	As
			90	7.5	Hold
			120	10	Hold
	SSI-6-E-B	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-6-E-C	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-6-E-D	Horizontal delineation	18	1.5	As
			30	2.5	Hold
			42	3.5	Hold
	SSI-6-E-F	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
		Vertical delineation	60	5	As
			90	7.5	Hold
			120	10	Hold
	SSI-6-E-G	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
			42	3.5	Hold
	SSI-6-S	Horizontal delineation	18	1.5	As, Pb
			30	2.5	As, Pb
			42	3.5	Hold
	SSI-6-S-A	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-6-S-B	Horizontal delineation	18	1.5	As
			30	2.5	Hold
			42	3.5	Hold
	SSI-6-S-C	Horizontal delineation	18	1.5	As
			30	2.5	Hold
			42	3.5	Hold

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-6 (cont.)	SSI-6-S-D	Horizontal delineation	18	1.5	As
			30	2.5	Hold
			42	3.5	Hold
	SSI-6-S-F	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
			42	3.5	Hold
	SSI-6-S-G	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
			42	3.5	Hold
	SSI-6-W	Horizontal delineation	18	1.5	As, Pb
			30	2.5	As, Pb
			42	3.5	Hold
	SSI-6N/10S	Horizontal delineation	6	0.5	As
			18	1.5	As, Pb
			36	3	As, Pb
			48	4	As, Pb
			60	5	As
	SSI-6-N/10-S-A	Horizontal delineation	6	0.5	As
			18	1.5	Hold
	SSI-6-N/10-S-B	Horizontal delineation	6	0.5	As
			18	1.5	As
	SSI-6-N/10-S-C	Horizontal delineation	6	0.5	As
			18	1.5	As
		Vertical delineation	36	3	As
			60	5	Hold
			90	7.5	Hold
	SSI-6-N/10-S-D	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
	SSI-6-N/10-S-F	Horizontal delineation	6	0.5	As
			18	1.5	Hold
	SSI-6-N/10-S-G	Horizontal delineation	6	0.5	As
			18	1.5	As
		Vertical delineation	36	3	As
			60	5	As
			90	7.5	Hold

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-7	SSI-7	Vertical delineation	30	2.5	As, STLC, TCLP
			42	3.5	As
			60	5	As
			90	7.5	Hold
			120	10	Hold
	SSI-7-A	Horizontal delineation	30	2.5	As
			60	5	Hold
	SSI-7-B	Horizontal delineation	30	2.5	As
			60	5	Hold
	SSI-7-C	Horizontal delineation	30	2.5	As
			60	5	Hold
	SSI-7-D	Horizontal delineation	30	2.5	Hold
			60	5	Hold
	SSI-7-F	Horizontal delineation	30	2.5	Hold
			60	5	Hold
	SSI-7-G	Horizontal delineation	30	2.5	Hold
			60	5	Hold
	SSI-7-E	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-7-S	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-7-S-A	Horizontal delineation	18	1.5	As
			30	2.5	Hold
	SSI-7-S-B	Horizontal delineation	18	1.5	As
			30	2.5	As
	SSI-7-S-C	Horizontal delineation	18	1.5	As
			30	2.5	Hold
	SSI-7-S-D	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
	SSI-7-S-F	Horizontal delineation	18	1.5	As
			30	2.5	Hold
	SSI-7-S-G	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
	SSI-7-W	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-7-N	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold

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David Starr Jordan Senior High School
Los Angeles, California

Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-7 (cont.)	SSI-7-N-A	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-7-N-B	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-7-N-C	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	As
	SSI-7-N-D	Horizontal delineation	18	1.5	As, STLC, TCLP
			30	2.5	As
			42	3.5	As
	SSI-7-N-F	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-7-N-G	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
JH-8	SSI-8	Vertical delineation	30	2.5	As
			42	3.5	Hold
	SSI-8-E	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	As
	SSI-8-E-A	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	As
	SSI-8-E-B	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-8-E-C	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-8-E-D	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-8-E-F	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-8-E-G	Horizontal delineation	18	1.5	Hold
			30	2.5	Hold
			42	3.5	Hold
	SSI-8-S	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-8-W	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	Hold
	SSI-8N/15S	Horizontal delineation	6	0.5	As
			18	1.5	As, Pb
			36	3	As
			48	4	As
			60	5	Hold

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SUPPLEMENTAL SITE INVESTIGATION
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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-10	SSI-10	Bounded by clean samples and property boundary	48	4	As
			60	5	As
	SSI-10-A	Horizontal delineation	48	4	As
			60	5	As
	SSI-10-B	Horizontal delineation	48	4	As
			60	5	Hold
	SSI-10-C	Horizontal delineation	48	4	As
			60	5	Hold
	SSI-10-D	Horizontal delineation	48	4	Hold
			60	5	Hold
JH-12	SSI-12	Bounded by property line to the north	48	4	As, STLC, TCLP
			60	5	As
			90	7.5	As
			120	10	As
			150	12.5	Hold
	SSI-12-A	Horizontal delineation	48	4	As
			60	5	Hold
			90	7.5	As
	SSI-12-B	Horizontal delineation	48	4	As
			60	5	Hold
			90	7.5	As
	SSI-12-C	Horizontal delineation	48	4	Hold
			60	5	Hold
			90	7.5	As
	SSI-12S/13S	Horizontal delineation	18	1.5	As, Pb
			36	3	As, Pb
			48	4	As, Pb
			60	5	Hold
	SSI-12-S/13-S-A	Horizontal delineation	18	1.5	As
			36	3	As, STLC, TCLP
		Vertical delineation	60	5	As
			90	7.5	Hold
			120	10	Hold
	SSI-12-S/13-S-B	Horizontal delineation	18	1.5	As
			36	3	Hold
	SSI-12-S/13-S-C	Horizontal delineation	18	1.5	As
			36	3	Hold
	SSI-12-S/13-S-D	Horizontal delineation	18	1.5	As
			36	3	As
	SSI-12-S/13-S-F	Horizontal delineation	18	1.5	Hold
			36	3	Hold
	SSI-12-S/13-S-G	Horizontal delineation	18	1.5	Hold
			36	3	Hold

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SOIL SAMPLING AND ANALYSIS
SUPPLEMENTAL SITE INVESTIGATION
David Starr Jordan Senior High School
Los Angeles, California

Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-13	SSI-13	Bounded by property line to the north	48	4	As
			60	5	Hold
	SSI-13-W	Horizontal delineation	18	1.5	As
			36	3	As, STLC, TCLP
		Vertical delineation	60	5	As
			90	7.5	As
			120	10	Hold
			150	12.5	Hold
	SSI-13-W-A	Horizontal delineation	18	1.5	As
			36	3	As
			60	5	As
			90	7.5	Hold
			120	10	Hold
	SSI-13-W-B	Horizontal delineation	18	1.5	As
			36	3	As, STLC, TCLP
			60	5	As, STLC, TCLP
			90	7.5	As
			120	10	As
	SSI-13-W-C	Horizontal delineation	18	1.5	As
			36	3	As
			60	5	Hold
			90	7.5	Hold
			120	10	Hold
	SSI-13-W-D	Horizontal delineation	18	1.5	Hold
			36	3	As, STLC, TCLP
			60	5	As
			90	7.5	Hold
			120	10	As
	SSI-13-W-F	Horizontal delineation	18	1.5	Hold
			36	3	As
			60	5	Hold
			90	7.5	Hold
			120	10	Hold
	SSI-13-W-G	Horizontal delineation	18	1.5	Hold
			36	3	Hold
			60	5	Hold
			90	7.5	Hold
			120	10	Hold

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JH-14	SSI-14	Bounded by property line to the north	48	4	As
			60	5	As
		Vertical delineation	90	7.5	As
			120	10	Hold
			150	12.5	Hold
	SSI-14-A	Horizontal delineation	48	4	As
			60	5	As, STLC, TCLP
			90	7.5	As
		Vertical delineation	120	10	As
	SSI-14-B	Horizontal delineation	48	4	As
			60	5	Hold
			90	7.5	Hold
		Vertical delineation	120	10	Hold
	SSI-14-C	Horizontal delineation	48	4	As, STLC, TCLP
			60	5	As, STLC, TCLP
			90	7.5	As, STLC, TCLP
		Vertical delineation	120	10	As
			150	12.5	As
			180	15	As
	SSI-14-D	Horizontal delineation	48	4	As, STLC, TCLP
			60	5	Hold
			90	7.5	As
		Vertical delineation	120	10	As
	SSI-14-F	Horizontal delineation	48	4	Hold
			60	5	Hold
			90	7.5	Hold
		Vertical delineation	120	10	Hold
	SSI-14-G	Horizontal delineation	48	4	As, STLC, TCLP
			60	5	Hold
			90	7.5	As, STLC, TCLP
		Vertical delineation	120	10	As
			150	12.5	As
			180	15	As
	SSI-14-E	Horizontal delineation	6	0.5	As
			18	1.5	As, Pb
			36	3	As
			48	4	As
			60	5	As
			90	7.5	As
			120	10	As
			150	12.5	Hold
	SSI-14-E-A	Horizontal delineation	6	0.5	As
			18	1.5	As
			36	3	As
			48	4	As
			60	5	As
			90	7.5	Hold
			120	10	Hold

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JH-14 (cont.)	SSI-14-E-B	Horizontal delineation	6	0.5	As
			18	1.5	As
			36	3	As
			48	4	As
			60	5	Hold
			90	7.5	Hold
			120	10	Hold
	SSI-14-E-C	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	As
			48	4	As
			60	5	As
			90	7.5	Hold
			120	10	As
	SSI-14-E-D	Horizontal delineation	6	0.5	As
			18	1.5	As, STLC, TCLP
			36	3	Hold
			48	4	Hold
			60	5	Hold
			90	7.5	Hold
			120	10	As
	SSI-14-S	Horizontal delineation	6	0.5	As
			18	1.5	As, Pb
			36	3	As
			48	4	As
			60	5	Hold
	SSI-14-S-A	Horizontal delineation	18	1.5	As
			36	3	As
			48	4	Hold
	SSI-14-S-B	Horizontal delineation	18	1.5	As
			36	3	As
			48	4	Hold
	SSI-14-S-C	Horizontal delineation	18	1.5	As
			36	3	As
			48	4	Hold
	SSI-14-S-D	Horizontal delineation	18	1.5	As
			36	3	Hold
			48	4	Hold
	SSI-14-S-F	Horizontal delineation	18	1.5	As
			36	3	As
			48	4	As
	SSI-14-S-G	Horizontal delineation	18	1.5	As
			36	3	As
			48	4	Hold

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-15	SSI-15	Bounded by clean sample and property boundary	6	0.5	As
			18	1.5	As, STLC, TCLP, Pb, STLC, TCLP
			36	3	As, STLC, TCLP, Pb
			48	4	As, STLC, TCLP
			60	5	As
		Vertical delineation	90	7.5	As
			120	10	As
			150	12.5	As
	SSI-15-A	Horizontal delineation	6	0.5	As
			18	1.5	As, STLC, TCLP, Pb, STLC, TCLP
			36	3	As, STLC, TCLP, Pb
			48	4	As, STLC, TCLP
			60	5	As, STLC, TCLP
			90	7.5	As, STLC, TCLP
			120	10	As
	SSI-15-B	Horizontal delineation	6	0.5	As
			18	1.5	As, Pb
			36	3	As
			48	4	As, STLC, TCLP
			60	5	As
			90	7.5	As
			120	10	Hold
	SSI-15-C	Horizontal delineation	6	0.5	As, STLC, TCLP
			18	1.5	As, STLC, TCLP, Pb
			36	3	As, STLC, TCLP
			48	4	As, STLC, TCLP
			60	5	As, STLC, TCLP
			90	7.5	As, STLC, TCLP
			120	10	As, STLC, TCLP
	SSI-15-D	Horizontal delineation	6	0.5	As
			18	1.5	Hold
			36	3	Hold
			48	4	As
			60	5	Hold
			90	7.5	Hold
			120	10	Hold
	SSI-15-F	Horizontal delineation	6	0.5	Hold
			18	1.5	As, STLC, TCLP
			36	3	Hold
			48	4	As, STLC, TCLP
			60	5	Hold
			90	7.5	Hold
			120	10	As

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-17	SSI-17-E	Bounded by property boundary and clean sample	6	0.5	As
			18	1.5	Hold
	SSI-17-W	Horizontal delineation	6	0.5	As
			24	2	As
		Vertical delineation	48	4	As
			60	5	Hold
			90	7.5	Hold
	SSI-17-W-A	Horizontal delineation	6	0.5	As
			24	2	As
			48	4	Hold
	SSI-17-W-B	Horizontal delineation	6	0.5	As
			24	2	As
			48	4	Hold
	SSI-17-W-C	Horizontal delineation	6	0.5	As
			24	2	As
			48	4	Hold
	SSI-17-W-D	Horizontal delineation	6	0.5	Hold
			24	2	Hold
			48	4	Hold
	SSI-17-W-F	Horizontal delineation	6	0.5	Hold
			24	2	Hold
			48	4	Hold
	SSI-17-W-G	Horizontal delineation	6	0.5	Hold
			24	2	Hold
			48	4	Hold
JH-18	SSI-18-E	Bounded by property boundary and clean sample	6	0.5	As
			24	2	Hold
	SSI-18-W	Horizontal delineation	6	0.5	As
			24	2	As
	SSI-18-W-A	Horizontal delineation	6	0.5	As
			24	2	As
	SSI-18-W-B	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-18-W-C	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-18-W-D	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-18-W-F	Horizontal delineation	6	0.5	Hold
			24	2	Hold
	SSI-18-W-G	Horizontal delineation	6	0.5	Hold
			24	2	Hold
JH-19	SSI-19-E	Bounded by property boundary and clean sample	18	1.5	Pb
			30	2.5	Hold
	SSI-19-W	Horizontal delineation	18	1.5	Pb
			30	2.5	Hold
JH-28	SSI-28-E	Horizontal delineation	6	0.5	Pb
			24	2	Hold
	SSI-28-N	Horizontal delineation	6	0.5	Pb
			24	2	Hold
	SSI-28W/29E	Horizontal delineation	6	0.5	Pb
			24	2	Hold

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-29	SSI-29-W	Horizontal delineation	6	0.5	Pb
			24	2	Hold
	SSI-29-N	Horizontal delineation	6	0.5	Pb
			24	2	Hold
JH-30	SSI-30-S	Horizontal delineation	6	0.5	As, STLC, TCLP
			24	2	As, STLC, TCLP
		Vertical delineation	36	3	As, STLC, TCLP
			60	5	As
	SSI-30-S-A	Horizontal delineation	6	0.5	As
			24	2	Hold
			36	3	As
	SSI-30-S-B	Horizontal delineation	6	0.5	As, STLC, TCLP
			24	2	As, STLC, TCLP
			36	3	As, STLC, TCLP
		Vertical delineation	60	5	As
			90	7.5	As
	SSI-30-S-C	Horizontal delineation	6	0.5	As
			24	2	Hold
			36	3	As
	SSI-30-S-D	Horizontal delineation	6	0.5	As
			24	2	Hold
			36	3	As
	SSI-30-W	Horizontal delineation	6	0.5	As
			24	2	As
	SSI-30-W-A	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-30-W-B	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-30-W-C	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-30-W-D	Horizontal delineation	6	0.5	Hold
			24	2	Hold
	SSI-30-W-F	Horizontal delineation	6	0.5	Hold
			24	2	Hold
	SSI-30-W-G	Horizontal delineation	6	0.5	Hold
			24	2	Hold
	SSI-30-N	Horizontal delineation	6	0.5	As
			24	2	As

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JH-30 (cont.)	SSI-30-N-A	Horizontal delineation	6	0.5	As
			24	2	As
	SSI-30-N-B	Horizontal delineation	6	0.5	As
			24	2	As
	SSI-30-N-C	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-30-N-D	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-30-N-F	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-30-N-G	Horizontal delineation	6	0.5	Hold
			24	2	Hold
JH-31	SSI-31-E	Horizontal delineation	6	0.5	As
			24	2	As
	SSI-31-E-A	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-31-E-B	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-31-E-C	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-31-E-D	Horizontal delineation	6	0.5	Hold
			24	2	Hold
	SSI-31-E-F	Horizontal delineation	6	0.5	Hold
			24	2	Hold
	SSI-31-S	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-31-W	Horizontal delineation	6	0.5	As
			24	2	Hold

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
JH-31 (cont.)	SSI-31-N	Horizontal delineation	6	0.5	As, STLC, TCLP
			24	2	As
	SSI-31-N-A	Horizontal delineation	6	0.5	As, STLC, TCLP
			24	2	As
	SSI-31-N-B	Horizontal delineation	6	0.5	As, STLC, TCLP
			24	2	As
	SSI-31-N-C	Horizontal delineation	6	0.5	As
			24	2	Hold
	SSI-31-N-D	Horizontal delineation	6	0.5	As
			24	2	As
	SSI-31-N-F	Horizontal delineation	6	0.5	As, STLC, TCLP
			24	2	As
	SSI-31-N-G	Horizontal delineation	6	0.5	Hold
			24	2	Hold
N/A	SSI-32	Perimeter delineation	6	0.5	As, Pb, STLC, TCLP
			18	1.5	As, Pb, STLC, TCLP
			36	3	As, Pb
			48	4	Hold
			60	5	Hold
	SSI-32-A	Horizontal delineation	6	0.5	As, Pb, STLC, TCLP
			18	1.5	As, Pb
			36	3	Hold
	SSI-32-B	Horizontal delineation	6	0.5	As, STLC, TCLP, Pb, STLC, TCLP
			18	1.5	As, STLC, TCLP, Pb, STLC, TCLP
			36	3	As, Pb
	SSI-32-C	Horizontal delineation	6	0.5	As, Pb
			18	1.5	As
			36	3	Hold
	SSI-32-D	Horizontal delineation	6	0.5	As, Pb
			18	1.5	As
			36	3	As
	SSI-32-F	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
	SSI-32-E	Spatial coverage	6	0.5	As
			18	1.5	Hold
			36	3	Hold

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
N/A	SSI-33	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb, STLC, TCLP
			36	3	As, Pb
			48	4	Hold
			60	5	Hold
	SSI-33-S	Spatial coverage	6	0.5	As, Pb
			18	1.5	As, Pb
			36	3	Hold
N/A	SSI-34	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb, STLC, TCLP
			36	3	As, Pb
			48	4	Hold
			60	5	Hold
			120	10	TPH
			180	15	TPH
			240	20	TPH
			300	25	TPH
			360	30	Hold
	SSI-34-A	Horizontal delineation	6	0.5	Pb, STLC, TCLP
			18	1.5	Pb, STLC, TCLP
			36	3	Pb
	SSI-34-B	Horizontal delineation	6	0.5	Pb, STLC, TCLP
			18	1.5	Pb
			36	3	Hold
	SSI-34-C	Horizontal delineation	6	0.5	Pb, STLC, TCLP
			18	1.5	Pb
			36	3	Hold
	SSI-34-D	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
N/A	SSI-35	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb, STLC, TCLP
			36	3	As, Pb
			48	4	Hold
			60	5	Hold

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N/A	SSI-36	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb
			36	3	As, Pb
			48	4	Hold
			60	5	TPH
			120	10	TPH
			180	15	TPH
			240	20	TPH
			300	25	TPH
			360	30	TPH
			420	35	Hold
			480	40	Hold
N/A	SSI-37	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb
			36	3	As, Pb
			48	4	Hold
			60	5	Hold
N/A	SSI-38	Perimeter delineation	6	0.5	As, Pb, STLC, TCLP
			18	1.5	As, Pb, STLC, TCLP
			36	3	As, Pb
			48	4	Hold
			60	5	Hold
	SSI-38-A	Horizontal delineation	6	0.5	As, Pb, STLC, TCLP
			18	1.5	Pb
			36	3	Hold
	SSI-38-B	Horizontal delineation	6	0.5	As, Pb
			18	1.5	Pb
			36	3	Hold
	SSI-38-C	Horizontal delineation	6	0.5	As, Pb, STLC, TCLP
			18	1.5	Pb
			36	3	Hold
	SSI-38-D	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
	SSI-38-F	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
	SSI-38-G	Horizontal delineation	6	0.5	Pb, STLC, TCLP
			18	1.5	Pb
			36	3	Hold
N/A	SSI-39	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb
			36	3	As, Pb
			48	4	Hold
			60	5	Hold

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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
N/A	SSI-40	Spatial coverage	6	0.5	As, Pb, STLC, TCLP
			18	1.5	As, Pb
			36	3	As, Pb
			48	4	Hold
			60	5	Hold
	SSI-40-A	Horizontal delineation	6	0.5	Pb
			18	1.5	Hold
			36	3	Hold
	SSI-40-B	Horizontal delineation	6	0.5	Pb
			18	1.5	Hold
			36	3	Hold
	SSI-40-C	Horizontal delineation	6	0.5	Pb
			18	1.5	Hold
			36	3	Hold
	SSI-40-D	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
	SSI-40-F	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
	SSI-40-G	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
N/A	SSI-41	Spatial coverage	6	0.5	As, Pb
			18	1.5	As, Pb
			36	3	As, Pb
			48	4	Hold
			60	5	Hold

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N/A	SSI-42	Perimeter delineation	6	0.5	As, Pb, STLC, TCLP
			18	1.5	As, Pb
			36	3	As, Pb
	SSI-42-A	Horizontal delineation	6	0.5	As
			18	1.5	As
			36	3	Hold
	SSI-42-B	Horizontal delineation	6	0.5	As
			18	1.5	Hold
			36	3	Hold
	SSI-42-C	Horizontal delineation	6	0.5	As
			18	1.5	Hold
			36	3	Hold
	SSI-42-D	Horizontal delineation	6	0.5	As
			18	1.5	Hold
			36	3	Hold
	SSI-42-F	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
	SSI-42-G	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
N/A	SSI-43	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb
			36	3	As, Pb
	SSI-43-A	Horizontal delineation	6	0.5	As
			18	1.5	As
			36	3	As
			48	4	Hold
	SSI-43-B	Horizontal delineation	6	0.5	As
			18	1.5	As, STLC, TCLP
			36	3	As
			48	4	Hold
	SSI-43-C	Horizontal delineation	6	0.5	As
			18	1.5	As
			36	3	As
			48	4	Hold
	SSI-43-D	Horizontal delineation	6	0.5	As
			18	1.5	Hold
			36	3	Hold
			48	4	Hold
	SSI-43-F	Horizontal delineation	6	0.5	Hold
			18	1.5	As
			36	3	Hold
			48	4	Hold
	SSI-43-G	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
			48	4	Hold
N/A	SSI-44	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb
			36	3	As, Pb

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David Starr Jordan Senior High School
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Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
N/A	SSI-45	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb, STLC, TCLP
			36	3	As, Pb
	SSI-45-A	Horizontal delineation	6	0.5	Pb, STLC, TCLP
			18	1.5	Pb, STLC, TCLP
			36	3	Hold
	SSI-45-B	Horizontal delineation	6	0.5	Pb, STLC, TCLP
			18	1.5	Pb
			36	3	Hold
	SSI-45-C	Horizontal delineation	6	0.5	Pb
			18	1.5	As, Pb
			36	3	Pb, STLC, TCLP
		Vertical delineation	60	5	Pb
			90	7.5	Hold
	SSI-45-D	Horizontal delineation	6	0.5	Pb, STLC, TCLP
			18	1.5	Pb
			36	3	Hold
	SSI-45-F	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
			36	3	Hold
	SSI-45-G	Horizontal delineation	6	0.5	As
			18	1.5	As, Pb, STLC, TCLP
			36	3	As, Pb
N/A	SSI-46	Perimeter delineation	6	0.5	As, Pb
			18	1.5	As, Pb
			36	3	As, Pb
	SSI-46-A	Horizontal delineation	6	0.5	As
			18	1.5	As
	SSI-46-B	Horizontal delineation	6	0.5	As
			18	1.5	Hold
	SSI-46-C	Horizontal delineation	6	0.5	As
			18	1.5	As
	SSI-46-D	Horizontal delineation	6	0.5	As
			18	1.5	Hold
	SSI-46-F	Horizontal delineation	6	0.5	Hold
			18	1.5	Hold
	SSI-46-G	Horizontal delineation	6	0.5	As
			18	1.5	Hold

TABLE 1
SOIL SAMPLING AND ANALYSIS
SUPPLEMENTAL SITE INVESTIGATION
David Starr Jordan Senior High School
Los Angeles, California

Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
N/A	SSI-47	Spatial coverage	120	10	TPH
			180	15	TPH
			240	20	TPH
			300	25	TPH
			360	30	Hold
N/A	SSI-48	Spatial coverage	120	10	TPH
			180	15	TPH
			240	20	TPH
			300	25	TPH
			360	30	Hold
N/A	SSI-49	Spatial coverage	120	10	TPH
			180	15	TPH
			240	20	TPH
			300	25	TPH
			360	30	Hold
N/A	SSI-50	Spatial coverage	6	0.5	As, Pb
			18	1.5	Hold
			60	5	Hold
			120	10	Hold
			180	15	TPH
			240	20	TPH
			300	25	Hold
N/A	SSI-51	Spatial coverage	6	0.5	As, Pb
			18	1.5	Hold
			60	5	Hold
			120	10	Hold
			180	15	TPH
			240	20	TPH
			300	25	Hold
N/A	SSI-52	Horizontal delineation	6	0.5	As, Pb
			18	1.5	Hold
			60	5	Hold
N/A	SSI-53	Horizontal delineation	6	0.5	As, Pb
			18	1.5	Hold
			36	3	Hold
N/A	SSI-54	Horizontal delineation	6	0.5	As
			24	2	Hold
			42	3.5	Hold
	SSI-55	Horizontal delineation	6	0.5	As
			24	2	Hold
			42	3.5	Hold
N/A	SSI-56	Horizontal delineation	6	0.5	As, Pb, STLC, TCLP
			24	2	As
			42	3.5	Hold
N/A	SSI-57	Horizontal delineation	18	1.5	As
			30	2.5	As
			42	3.5	As
N/A	SSI-58	Horizontal delineation	18	1.5	As
			42	3.5	Hold
			60	5	Hold

TABLE 1
SOIL SAMPLING AND ANALYSIS
SUPPLEMENTAL SITE INVESTIGATION
David Starr Jordan Senior High School
Los Angeles, California

Previous Boring Location	Supplemental Sampling Location ID	Sampling Rationale / Comments	Sample Depth (inches bgs)	Sample Depth (feet bgs)	Analytical Program
N/A	SSI-59	Horizontal delineation	18	1.5	As
			42	3.5	As
			60	5	Hold
	SSI-60	Horizontal delineation	18	1.5	As
			42	3.5	Hold
			60	5	Hold
N/A	SSI-61	Horizontal delineation	18	1.5	As
			60	5	Hold
			90	7.5	Hold
N/A	SSI-62	Horizontal delineation	18	1.5	As
			60	5	Hold
			90	7.5	Hold
N/A	SSI-63	Horizontal delineation	6	0.5	As
			18	1.5	As
			36	3	Hold
N/A	SSI-64	Horizontal delineation	6	0.5	As, Pb
			36	3	As, Pb
			60	5	Hold

N/A = Not applicable

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-2	SSI-2-30"	6/13/18	2.5	4.47			--		
	SSI-2-E-18"	6/13/18	1.5	56.1	2.32	ND<0.50	--	--	--
	SSI-2-E-30"	6/13/18	2.5	3.93			--		
	SSI-2-S-18"	6/13/18	1.5	28.5			--		
	SSI-2-S-30"	6/13/18	2.5	4.28			--		
	SSI-2-W-18"	6/13/18	1.5	15.2			--		
	SSI-2-W-30"	6/13/18	2.5	5.20			--		
	SSI-2-N/4-S-18"	6/13/18	1.5	20.4			3.42		
	SSI-2-N/4-S-30"	6/13/18	2.5	4.67			2.71		
JH-3	SSI-3-30"	6/14/18	0.5	--			3.61		
	DUP22	6/14/18	1.5	--			3.62		
	SSI-3-E/4-W-18"	6/13/18	1.5	32.4			11.0		
	DUP14	6/13/18	1.5	41.7			10.9		
	SSI-3-E/4-W-30"	6/13/18	2.5	6.40			3.80		
	SSI-3-S-18"	6/14/18	1.5	--			4.15		
	SSI-3-S-30"	6/14/18	2.5	--			2.62		
	SSI-3-W-18"	6/12/18	1.5	--			3.71		
	SSI-3-W-30"	6/12/18	2.5	--			1.09		
	SSI-3-N-18"	6/14/18	1.5	--			11.3		
	SSI-3-N-30"	6/14/18	2.5	--			30.7		
	SSI-3-N-42"	6/14/18	3.5	--			2.58		
	SSI-3-N-A-18"	7/17/18	1.5	--			10.5		
	SSI-3-N-A-30"	7/17/18	2.5	--			3.45		
	SSI-3-N-B-18"	7/17/18	1.5	--			10.5		
	SSI-3-N-B-30"	7/17/18	2.5	--			16.2		
	SSI-3-N-B-42"	7/17/18	3.5	--			2.59		
	SSI-3-N-C-18"	7/17/18	1.5	--			22.7		
	DUP42	7/17/18	1.5	--			11.5		
	SSI-3-N-C-30"	7/17/18	2.5	--			14.5		
	SSI-3-N-C-42"	7/17/18	3.5	--			1.55		
	SSI-3-N-F-30"	7/17/18	2.5	--			12.9		
	SSI-3-N-F-42"	7/17/18	3.5	--	--	--	100	1.30	ND<0.50
	SSI-3-N-F-60"	8/10/18	5.0	--			2.58		
	SSI-3-N-G-18"	7/17/18	1.5	--			16.2		
	SSI-3-N-G-30"	7/17/18	2.5	--			6.59		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-4	SSI-4-30"	6/13/18	2.5	7.39			3.94		
	DUP12	6/13/18	2.5	6.43			3.85		
	SSI-4-N-18"	6/13/18	1.5	40.6			19.2		
	SSI-4-N-30"	6/13/18	2.5	4.84			3.16		
	SSI-4-N-A-18"	7/17/18	1.5	--			12.2		
	SSI-4-N-A-30"	7/17/18	2.5	--			52.9	ND<0.50	ND<0.50
	SSI-4-N-A-60"	8/10/18	5.0	--			2.70		
	SSI-4-N-B-18"	7/17/18	1.5	--			7.59		
	SSI-4-N-C-18"	7/17/18	1.5	--			10.0		
	SSI-4-N-D-18"	7/17/18	1.5	--			30.4		
	SSI-4-N-D-30"	7/17/18	2.5	--			17.9		
	SSI-4-N-D-60"	8/10/18	5.0	--			2.82		
	SSI-4-E/5-W-6"	6/13/18	0.5	28.8			8.04		
	DUP11	6/13/18	0.5	36.9			7.70		
	SSI-4-E/5-W-18"	6/13/18	1.5	20.4			2.49		
	SSI-4-E/5-W-30"	6/13/18	2.5	5.62			4.33		
JH-5	SSI-5-E-1"	6/13/18	0	30.1			9.38		
	SSI-5-E-6"	6/13/18	0.5	10.5			10.1		
	SSI-5-S-1"	6/13/18	0	20.4			3.24		
	SSI-5-S-6"	6/13/18	0.5	50.3	1.88	ND<0.50	3.34	--	--
	SSI-5-N-1"	6/13/18	0	47.8			14.0		
	SSI-5-N-6"	6/13/18	0.5	42.2			42.8		
	SSI-5-N-24"	6/13/18	2.0	--			2.98		
	SSI-5-N-A-6"	7/12/18	0.5	--			17.3		
	SSI-5-N-A-18"	7/12/18	1.5	--			2.12		
	SSI-5-N-B-6"	7/12/18	0.5	--	--	--	93.3	3.71	1.01
	SSI-5-N-B-18"	7/12/18	1.5	--			2.18		
	SSI-5-N-C-6"	7/13/18	0.5	--			26.2		
	SSI-5-N-C-18"	7/13/18	1.5	--			6.46		
	SSI-5-N-D-6"	7/12/18	0.5	--			7.78		
	SSI-5-N-F-6"	7/12/18	0.5	--			7.20		
	SSI-5-N-G-6"	7/13/18	0.5	--			19.8		
	SSI-5-N-G-18"	7/13/18	1.5	--			2.32		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-6	SSI-6-30"	6/14/18	2.5	2.11			3.28		
	DUP18	6/14/18	2.5	20.3			4.38		
	SSI-6-E-18"	6/14/18	1.5	75.5	1.87	ND<0.50	27.8	--	--
	SSI-6-E-30"	6/14/18	2.5	34.2			25.4		
	SSI-6-E-42"	6/14/18	3.5	--			3.99		
	SSI-6-E-A-18"	7/12/18	1.5	--			9.47		
	DUP24	7/12/18	1.5	--			7.46		
	SSI-6-E-A-30"	7/12/18	2.5	--			13.9		
	SSI-6-E-A-42"	7/12/18	3.5	--			46.5		
	SSI-6-E-A-60"	8/10/18	5.0	--			2.72		
	SSI-6-E-B-18"	7/12/18	1.5	--	--	--	51.4	2.77	--
	SSI-6-E-B-30"	7/12/18	2.5	--			5.53		
	SSI-6-E-C-18"	7/12/18	1.5	--			6.63		
	SSI-6-E-C-30"	7/12/18	2.5	--			4.71		
	SSI-6-E-D-18"	7/12/18	1.5	--			3.78		
	SSI-6-E-F-18"	7/12/18	1.5	--			12.9		
	SSI-6-E-F-30"	7/12/18	2.5	--			31.4		
	SSI-6-E-F-60"	8/10/18	5.0	--			0.934		
	SSI-6-S-18"	6/14/18	1.5	7.42			13.1		
	SSI-6-S-30"	6/14/18	2.5	4.18			4.26		
	SSI-6-S-A-18"	7/12/18	1.5	--			24.7		
	SSI-6-S-A-30"	7/12/18	2.5	--			2.88		
	SSI-6-S-B-18"	7/12/18	1.5	--			8.92		
	SSI-6-S-C-18"	7/12/18	1.5	--			8.14		
	SSI-6-S-D-18"	7/12/18	1.5	--			9.82		
	SSI-6-W-18"	6/14/18	1.5	12.0			9.01		
	SSI-6-W-30"	6/14/18	2.5	5.69			2.99		
	SSI-6-N/10-S-6"	6/14/18	0.5	--			12.3		
	SSI-6-N/10-S-18"	6/14/18	1.5	5.89			3.83		
	SSI-6-N/10-S-36"	6/14/18	3.0	5.68			4.04		
	SSI-6-N/10-S-48"	6/14/18	4.0	7.05			6.03		
	SSI-6-N/10-S-60"	6/14/18	5.0	--			1.77		
	SSI-6-N/10-S-A-6"	7/12/18	0.5	--			3.60		
	SSI-6-N/10-S-B-6"	7/12/18	0.5	--			12.5		
	SSI-6-N/10-S-B-18"	7/12/18	1.5	--			4.43		
	SSI-6-N/10-S-C-6"	7/12/18	0.5	--			18.3		
	SSI-6-N/10-S-C-18"	7/12/18	1.5	--			47.7		
	SSI-6-N/10-S-C-36"	8/10/18	3.0	--			4.05		
	SSI-6-N/10-S-F-6"	7/12/18	0.5	--			7.10		
	SSI-6-N/10-S-G-6"	7/12/18	0.5	--			23.1		
	SSI-6-N/10-S-G-18"	7/12/18	1.5	--			25.1		
	SSI-6-N/10-S-G-36"	8/10/18	3.0	--			30.9		
	DUP60	8/10/18	3.0	--			23.4		
	SSI-6-N/10-S-G-60"	8/10/18	5.0	--			2.42		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-7	SSI-7-30"	6/13/18	2.5	--			55.6	1.28	ND<0.50
	SSI-7-42"	6/13/18	3.5	--			29.8		
	SSI-7-60"	7/17/18	5.0	--			2.62		
	DUP44	7/17/18	5.0	--			2.16		
	SSI-7-A-30"	7/17/18	2.5	--			4.82		
	SSI-7-B-30"	7/17/18	2.5	--			4.33		
	SSI-7-C-30"	7/17/18	2.5	--			4.18		
	SSI-7-E-18"	6/14/18	1.5	--			7.80		
	SSI-7-E-30"	6/14/18	2.5	--			4.14		
	SSI-7-S-18"	6/13/18	1.5	--			19.9		
	SSI-7-S-30"	6/13/18	2.5	--			11.1		
	SSI-7-S-A-18"	7/17/18	1.5	--			8.72		
	SSI-7-S-B-18"	7/17/18	1.5	--			12.4		
	SSI-7-S-B-30"	7/17/18	2.5	--			4.86		
	SSI-7-S-C-18"	7/17/18	1.5	--			6.54		
	SSI-7-S-F-18"	7/17/18	1.5	--			8.30		
	SSI-7-W-18"	6/13/18	1.5	--			7.78		
	SSI-7-W-30"	6/13/18	2.5	--			3.80		
	SSI-7-N-18"	6/13/18	1.5	--			29.7		
	SSI-7-N-30"	6/13/18	2.5	--			3.84		
	SSI-7-N-A-18"	7/13/18	1.5	--			12.0		
	SSI-7-N-A-30"	7/13/18	2.5	--			4.80		
	SSI-7-N-B-18"	7/13/18	1.5	--			38.7		
	SSI-7-N-B-30"	7/13/18	2.5	--			10.6		
	SSI-7-N-C-18"	7/13/18	1.5	--			41.4		
	SSI-7-N-C-30"	7/13/18	2.5	--			13.4		
	SSI-7-N-C-42'	7/13/18	3.5	--			3.64		
	SSI-7-N-D-18"	7/13/18	1.5	--	--	--	105	6.37	1.42
	SSI-7-N-D-30"	7/13/18	2.5	--			31.6		
	SSI-7-N-D-42"	7/13/18	3.5	--			5.23		
	SSI-7-N-F-18"	7/13/18	1.5	--			24.8		
	SSI-7-N-F-30"	7/13/18	2.5	--			4.13		
	SSI-7-N-G-18"	7/13/18	1.5	--			15.2		
	SSI-7-N-G-30"	7/13/18	2.5	--			11.7		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-8	SSI-8-30"	6/14/18	2.5	--			4.76		
	DUP20	6/14/18	2.5	--			4.11		
	SSI-8-E-18"	6/13/18	1.5	--			10.5		
	SSI-8-E-30"	6/13/18	2.5	--			12.6		
	SSI-8-E-42"	6/13/18	3.5	--			4.12		
	SSI-8-E-A-18"	7/17/18	1.5	--			16.6		
	SSI-8-E-A-30"	7/17/18	2.5	--			24.1		
	SSI-8-E-A-42"	7/17/18	3.5	--			3.74		
	SSI-8-E-B-18"	7/17/18	1.5	--			18.9		
	DUP40	7/17/18	1.5	--			13.4		
	SSI-8-E-B-30"	7/17/18	2.5	--			5.20		
	SSI-8-E-C-18"	7/17/18	1.5	--			10.8		
	SSI-8-E-C-30"	7/17/18	2.5	--			4.87		
	SSI-8-E-D-18"	7/17/18	1.5	--			13.5		
	SSI-8-E-D-30"	7/17/18	2.5	--			6.72		
	SSI-8-E-F-18"	7/17/18	1.5	--			22.9		
	SSI-8-E-F-30"	7/17/18	2.5	--			7.4		
	SSI-8-S-18"	6/14/18	1.5	--			5.94		
	SSI-8-S-30"	6/14/18	2.5	--			3.07		
	SSI-8-W-18"	6/12/18	1.5	--			5.47		
	SSI-8-W-30"	6/12/18	2.5	--			3.06		
	SSI-8-N/15-S-6"	6/13/18	0.5	--			9.58		
	SSI-8-N/15-S-18"	6/13/18	1.5	22.3			10.5		
	SSI-8-N/15-S-36"	6/13/18	3.0	--			4.00		
	SSI-8-N/15-S-48"	6/13/18	4.0	--			1.76		
JH-10	SSI-10-48"	6/11/18	4.0	--			12.5		
	SSI-10-60"	6/11/18	5.0	--			6.22		
	SSI-10-A-48"	7/12/18	4.0	--			32.3		
	SSI-10-A-60"	7/12/18	5.0	--			26.9		
	SSI-10-B-48"	7/12/18	4.0	--			3.59		
	SSI-10-C-48"	7/12/18	4.0	--			1.63		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	ft bgs	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-12	SSI-12-48"	6/11/18	4.0	--	--	--	67.7	2.72	ND<0.50
	DUP1	6/11/18	4.0	--			57.9		
	SSI-12-60"	6/11/18	5.0	--			36.7		
	DUP2	6/11/18	5.0	--			58.3		
	SSI-12-90"	7/13/18	7.5	--			14.6		
	SSI-12-120"	7/13/18	10.0	--			2.85		
	SSI-12-A-48"	7/13/18	4.0	--			2.67		
	SSI-12-A-90"	7/13/18	7.5	--			2.84		
	SSI-12-B-48"	7/13/18	4.0	--			8.66		
	SSI-12-B-90"	7/13/18	7.5	--			33.2		
	SSI-12-B-120"	7/13/18	10.0	--			1.28		
	SSI-12-C-90"	7/13/18	7.5	--			3.66		
	SSI-12-S/13-S-18"	6/14/18	1.5	13.8			15.7		
	SSI-12-S/13-S-36"	6/14/18	3.0	4.75	--	--	2.97		
	SSI-12-S/13-S-48"	6/14/18	4.0	2.29			1.26		
	SSI-12-S/13-S-A-18"	7/13/18	1.5	--			25.9		
	DUP32	7/13/18	1.5	--			48.8		
	SSI-12-S/13-S-A-36"	7/13/18	3.0	--			57.8	0.973J	ND<0.50
	SSI-12-S/13-S-A-60"	8/10/18	5.0	--			1.38		
	SSI-12-S/13-S-B-18"	7/13/18	1.5	--			4.25		
	SSI-12-S/13-S-C-18"	7/13/18	1.5	--			3.44		
	SSI-12-S/13-S-D-18"	7/13/18	1.5	--			13.6		
	SSI-12-S/13-S-D-36"	7/13/18	3.0	--			4.44		
JH-13	SSI-13-48"	6/11/18	4.0	--			11.3		
	SSI-13-W-18"	6/11/18	1.5	--			3.22		
	SSI-13-W-36"	6/11/18	3.0	--	--	--	96.5	4.34	0.724J
	SSI-13-W-60"	6/11/18	5.0	--			94.2		
	SSI-13-W-90"	7/13/18	7.5	--			1.54		
	SSI-13-W-A-18"	7/13/18	1.5	--			3.39		
	SSI-13-W-A-36"	7/13/18	3.0	--			38.9		
	SSI-13-W-A-60"	7/13/18	5.0	--			6.71		
	SSI-13-W-B-18"	7/13/18	1.5	--			3.45		
	SSI-13-W-B-36"	7/13/18	3.0	--	--	--	80.8	3.59	0.952J
	SSI-13-W-B-60"	7/13/18	5.0	--	--	--	55.8	1.09	ND<0.50
	SSI-13-W-B-90"	7/13/18	7.5	--			16.9		
	SSI-13-W-B-120"	7/13/18	10.0	--			1.69		
	SSI-13-W-C-18"	7/13/18	1.5	--			3.25		
	SSI-13-W-C-36"	7/13/18	3.0	--			8.11		
	SSI-13-W-D-36"	7/13/18	3.0	--	--	--	127	2.38	ND<0.50
	SSI-13-W-D-60"	7/13/18	5.0	--			44.2		
	SSI-13-W-D-120"	7/13/18	10.0				1.36		
	SSI-13-W-F-36"	7/13/18	3.0	--			6.30		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	ft bgs	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-14	SSI-14-48"	6/11/18	4.0	--			46.1		
	SSI-14-60"	6/11/18	5.0	--			50.0		
	SSI-14-90"	7/16/18	7.5	--			1.03		
	SSI-14-A-48"	7/16/18	4.0	--	--	--	143	6.31	1.05
	DUP36	7/16/18	4.0	--			34.5		
	SSI-14-A-60"	7/16/18	5.0	--	--	--	59.0	2.16	ND<0.50
	SSI-14-A-90"	7/16/18	7.5	--			25.0		
	SSI-14-A-120"	7/16/18	10.0	--			3.39		
	SSI-14-B-48"	7/16/18	4.0	--			5.54		
	SSI-14-C-48"	7/16/18	4.0	--	--	--	94.2	3.39	ND<0.50
	SSI-14-C-60"	7/16/18	5.0	--	--	--	81.8	2.57	ND<0.50
	SSI-14-C-90"	7/16/18	7.5	--	--	--	61.8	2.05	ND<0.50
	SSI-14-C-120"	7/16/18	10.0	--			36.9		
	SSI-14-C-150"	8/10/18	12.5	--			33.1		
	SSI-14-C-180"	8/10/18	15.0	--			21.1		
	SSI-14-D-48"	7/16/18	4.0	--	--	--	78.9	3.94	ND<0.50
	SSI-14-D-90"	7/16/18	7.5	--			11.9		
	SSI-14-D-120"	7/16/18	10.0	--			5.11		
	SSI-14-G-48"	7/16/18	4.0	--	--	--	66.2	2.83	ND<0.50
	SSI-14-G-90"	7/16/18	7.5	--	--	--	56.9	0.917	ND<0.50
	SSI-14-G-120"	7/16/18	10.0	--			14.1		
	SSI-14-G-150"	8/10/18	12.5	--			12.6		
	SSI-14-G-180"	8/10/18	15.0	--			6.66		
	SSI-14-E-6"	6/11/18	0.5	--			11.2		
	SSI-14-E-18"	6/11/18	1.5	38.8			8.75		
	SSI-14-E-36"	6/11/18	3.0	--			12.1		
	SSI-14-E-48"	6/11/18	4.0	--			23.1		
	SSI-14-E-60"	6/11/18	5.0	--			50.2		
	SSI-14-E-90"	7/16/18	7.5	--			15.2		
	SSI-14-E-120"	7/16/18	10.0	--			2.89		
	SSI-14-E-A-6"	7/16/18	0.5	--			2.71		
	SSI-14-E-A-18"	7/16/18	1.5	--			27.3		
	SSI-14-E-A-36"	7/16/18	3.0	--			49.5		
	SSI-14-E-A-48"	7/16/18	4.0	--			44.6		
	SSI-14-E-A-60"	7/16/18	5.0	--			8.07		
	SSI-14-E-B-6"	7/16/18	0.5	--			12.9		
	SSI-14-E-B-18"	7/16/18	1.5	--			9.01		
	SSI-14-E-B-36"	7/16/18	3.0	--			5.99		
	SSI-14-E-B-48"	7/16/18	4.0	--			11.5		
	SSI-14-E-C-36"	7/16/18	3.0	--			30.3		
	SSI-14-E-C-48"	7/16/18	4.0	--			13.2		
	SSI-14-E-C-60"	7/16/18	5.0	--			16.5		
	SSI-14-E-C-120"	7/16/18	10.0	--			2.73		
	SSI-14-E-D-6"	7/16/18	0.5	--			36		
	SSI-14-E-D-18"	7/16/18	1.5	--			52.5	2.76	0.705J
	SSI-14-E-D-120"	7/16/18	10.0	--			2.04		
	SSI-14-S-6"	6/13/18	0.5	--			8.78		
	SSI-14-S-18"	6/13/18	1.5	31.3			12.1		
	DUP15	6/13/18	1.5	32.8			10.6		
	SSI-14-S-36"	6/13/18	3.0	--			5.30		
	SSI-14-S-48"	6/13/18	4.0	--			1.89		
	SSI-14-S-A-18"	7/16/18	1.5	--			22.9		
	DUP38	7/16/18	1.5	--			22.8		
	SSI-14-S-A-36"	7/16/18	3.0	--			4.5		
	SSI-14-S-B-18"	7/16/18	1.5	--			13.6		
	SSI-14-S-B-36"	7/16/18	3.0	--			5.96		

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Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	ft bgs	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-14 (cont.)	SSI-14-S-C-18"	7/16/18	1.5	--			12.0		
	SSI-14-S-C-36"	7/16/18	3.0	--			7.07		
	SSI-14-S-D-18"	7/16/18	1.5	--			9.99		
	SSI-14-S-F-18"	7/16/18	1.5	--	--	--	57.1	0.798	ND<0.50
	SSI-14-S-F-36"	7/16/18	3.0	--			18.2		
	SSI-14-S-F-48"	7/16/18	4.0	--			2.38		
	SSI-14-S-G-18"	7/16/18	1.5	--			12.9		
	SSI-14-S-G-36"	7/16/18	3.0	--			7.49		
JH-15	SSI-15-6"	6/11/18	0.5	--			15.5		
	SSI-15-18"	6/11/18	1.5	252	4.09	ND<0.50	90.2	8.55	1.47
	SSI-15-36"	6/11/18	3.0	10.3	--	--	144	6.01	0.660J
	SSI-15-48"	6/11/18	4.0	--	--	--	54.8	1.75	ND<0.50
	SSI-15-60"	6/11/18	5.0	--			50.7		
	SSI-15-90"	7/16/18	7.5	--			44.5		
	SSI-15-120"	7/16/18	10.0	--			17.7		
	SSI-15-150"	7/16/18	12.5	--			6.18		
	SSI-15-A-6"	7/16/18	0.5	--			42.5		
	SSI-15-A-18"	7/16/18	1.5	195	8.32	ND<0.50	118	10.6	2.48
	SSI-15-A-36"	7/16/18	3.0	18.3	--	--	109	5.52	ND<0.50
	SSI-15-A-48"	7/16/18	4.0	--	--	--	57.8	2.12	ND<0.50
	SSI-15-A-60"	7/16/18	5.0	--	--	--	63.5	2.09	ND<0.50
	SSI-15-A-90"	7/16/18	7.5	--	--	--	53.5	2.04	ND<0.50
	SSI-15-A-120"	7/16/18	10.0	--			20.1		
	SSI-15-B-6"	7/16/18	0.5	--			32.4		
	SSI-15-B-18"	7/16/18	1.5	6.42			8.86		
	SSI-15-B-36"	7/16/18	3.0	--			11.7		
	SSI-15-B-48"	7/16/18	4.0	--	--	--	54.9	1.98	ND<0.50
	SSI-15-B-60"	7/16/18	5.0	--			41.4		
	SSI-15-B-90"	7/16/18	7.5	--			5.09		
	SSI-15-C-6"	7/16/18	0.5	--	--	--	180	2.19	ND<0.50
	DUP34	7/16/18	0.5	--			150		
	SSI-15-C-18"	7/16/18	1.5	11.8	--	--	204	9.64	1.58
	SSI-15-C-36"	7/16/18	3.0	--	--	--	109	4.98	0.860J
	SSI-15-C-48"	7/16/18	4.0	--	--	--	114	4.54	0.695J
	SSI-15-C-60"	7/16/18	5.0	--	--	--	50.9	2.15	ND<0.50
	SSI-15-C-90"	7/16/18	7.5	--	--	--	60.6	1.75	0.521J
	SSI-15-C-120"	7/16/18	10.0	--	--	--	65.9	1.02	ND<0.50
	SSI-15-D-6"	7/16/18	0.5	--			10.3		
	SSI-15-D-48"	7/16/18	4.0	--			4.80		
	SSI-15-F-6"	7/16/18	0.5	--			8.76		
	SSI-15-F-18"	7/16/18	1.5	--	--	--	89.1	3.39	0.604J
	SSI-15-F-48"	7/16/18	4.0	--	--	--	107	1.25	0.579J
	SSI-15-F-120"	7/16/18	10.0	--			3.32		
JH-17	SSI-17-E-6"	6/11/18	0.5	--			4.24		
	DUP4	6/11/18	0.5	--			4.30		
	SSI-17-W-6"	6/11/18	0.5	--			23.8		
	SSI-17-W-24"	6/11/18	2.0	--			41.1		
	SSI-17-W-48"	7/17/18	4.0	--			3.57		
	SSI-17-W-A-6"	7/17/18	0.5	--			6.35		
	SSI-17-W-A-24"	7/17/18	2.0	--			3.77		
	SSI-17-W-B-6"	7/17/18	0.5	--			11.1		
	SSI-17-W-B-24"	7/17/18	2.0	--			6.12		
	SSI-17-W-C-6"	7/17/18	0.5	--			4.02		
	SSI-17-W-C-24"	7/17/18	2.0	--			4.99		

TABLE 2
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Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-18	SSI-18-E-6"	6/11/18	0.5	--			11.1		
	SSI-18-W-6"	6/11/18	0.5	--			20.2		
	SSI-18-W-24"	6/11/18	2.0	--			4.70		
	SSI-18-W-A-6"	7/18/18	0.5	--			15.5		
	SSI-18-W-A-24"	7/18/18	2.0	--			3.04		
	SSI-18-W-B-6"	7/18/18	0.5	--			3.73		
	SSI-18-W-C-6"	7/18/18	0.5	--			10.7		
	SSI-18-W-D-6"	7/18/18	0.5	--			8.51		
JH-19	SSI-19-E-18"	6/11/18	1.5	9.56			--		
	DUP5	6/11/18	1.5	11.3			--		
	SSI-19-W-18"	6/11/18	1.5	21.8			--		
JH-28	SSI-28-E-6"	6/12/18	0.5	33.4			--		
	SSI-28-N-6"	6/12/18	0.5	17.4			--		
	SSI-28-W/29-E-6"	6/12/18	0.5	31.2			--		
JH-29	SSI-29-W-6"	6/12/18	0.5	46.7			--		
	SSI-29-N-6"	6/12/18	0.5	26.6			--		
JH-30	SSI-30-S-6"	6/12/18	0.5	--	--	--	140	9.27	3.04
	SSI-30-S-24"	6/12/18	2.0	--			226	12.7	3.43
	SSI-30-S-36"	7/18/18	3.0	--	--	--	119	7.67	1.44
	SSI-30-S-60"	7/18/18	5.0	--			3.08		
	SSI-30-S-A-6"	7/18/18	0.5	--			1.64		
	DUP50	7/18/18	0.5	--			2.31		
	SSI-30-S-A-36"	7/18/18	3.0	--			7.47		
	SSI-30-S-B-6"	7/18/18	0.5	--	--	--	143	8.56	2.69
	SSI-30-S-B-24"	7/18/18	2.0	--	--	--	123	5.10	1.11
	SSI-30-S-B-36"	7/18/18	3.0	--	--	--	96.6	3.59	0.723J
	SSI-30-S-B-60"	8/10/18	5.0	--			23.4		
	SSI-30-S-B-90"	8/10/18	7.5	--			1.93		
	SSI-30-S-C-6"	7/18/18	0.5	--			2.58		
	SSI-30-S-C-36"	7/18/18	3.0	--			2.32		
	SSI-30-S-D-6"	7/18/18	0.5	--			27.8		
	SSI-30-S-D-36"	7/18/18	3.0	--			1.92		
	SSI-30-W-6"	6/12/18	0.5	--			39.0		
	SSI-30-W-24"	6/12/18	2.0	--			1.67		
	SSI-30-W-A-6"	7/18/18	0.5	--			8.32		
	SSI-30-W-B-6"	7/18/18	0.5	--			2.90		
	SSI-30-W-C-6"	7/18/18	0.5	--			3.07		
	SSI-30-N-6"	6/12/18	0.5	--			33.8		
	SSI-30-N-24"	6/12/18	2.0	--			2.77		
	SSI-30-N-A-6"	7/18/18	0.5	--			13.9		
	SSI-30-N-A-24"	7/18/18	2.0	--			2.29		
	SSI-30-N-B-6"	7/18/18	0.5	--			13.6		
	SSI-30-N-B-24"	7/18/18	2.0	--			2.99		
	SSI-30-N-C-6"	7/18/18	0.5	--			4.67		
	SSI-30-N-D-6"	7/18/18	0.5	--			3.68		
	SSI-30-N-F-6"	7/18/18	0.5	--			11.4		

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Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	ft bgs	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
JH-31	SSI-31-E-6"	6/12/18	0.5	--			17.7		
	SSI-31-E-24"	6/12/18	2.0	--			5.25		
	SSI-31-E-A-6"	7/18/18	0.5	--			3.71		
	DUP52	7/18/18	0.5	--			3.01		
	SSI-31-E-B-6"	7/18/18	0.5	--			3.52		
	SSI-31-E-C-6"	7/18/18	0.5	--			2.91		
	SSI-31-S-6"	6/12/18	0.5	--			4.81		
	SSI-31-W-6"	6/12/18	0.5	--			3.64		
	SSI-31-N-6"	6/12/18	0.5	--	--	--	79.1	2.60	0.562J
	SSI-31-N-24"	6/12/18	2.0	--			2.19		
	SSI-31-N-A-6"	7/19/18	0.5	--	--	--	52.6	1.53	ND<0.50
	SSI-31-N-A-24"	7/19/18	2.0	--			1.65		
	SSI-31-N-B-6"	7/19/18	0.5	--	--	--	91.2	2.96	0.750
	SSI-31-N-B-24"	7/19/18	2.0	--			2.5		
	SSI-31-N-C-6"	7/19/18	0.5	--			9.18		
	SSI-31-N-D-6"	7/19/18	0.5	--			49.1		
	SSI-31-N-D-24"	7/19/18	2.0	--			2.37		
	SSI-31-N-F-6"	7/19/18	0.5	--	--	--	57.6	2.80	ND<0.50
	SSI-31-N-F-24"	7/19/18	2.0	--			2.46		
N/A	SSI-32-6"	6/12/18	0.5	327	19.2	0.590J	21.1	--	--
	SSI-32-18"	6/12/18	1.5	68.4	4.29	ND<0.50	18.8	--	--
	SSI-32-36"	6/12/18	3.0	4.23			2.88		
	SSI-32-A-6"	7/19/18	0.5	1,220	105	ND<0.50	34.6	--	--
	SSI-32-A-18"	7/19/18	1.5	13.70			5.11		
	SSI-32-B-6"	7/19/18	0.5	874	4.65	ND<0.50	55.2	1.56	ND<0.50
	SSI-32-B-18"	7/19/18	1.5	88.5	2.01	ND<0.50	48.2	1.03	ND<0.50
	DUP54	7/19/18	1.5	11.3			14.2		
	SSI-32-B-36"	7/19/18	3.0	8.89			10.1		
	SSI-32-C-6"	7/19/18	0.5	--			6.67		
	SSI-32-C-18"	7/19/18	1.5	--			5.75		
	SSI-32-D-6"	7/19/18	0.5	7.78			16.9		
	SSI-32-D-18"	7/19/18	1.5	--			13.7		
	SSI-32-D-36"	7/19/18	3.0	--			3.46		
	SSI-32-E-6"	8/10/18	0.5	--			6.72		
N/A	SSI-33-6"	6/11/18	0.5	23.5			5.43		
	SSI-33-18"	6/11/18	1.5	53.8	1.89	ND<0.50	5.35	--	--
	SSI-33-36"	6/11/18	3.0	8.13			2.20		
	SSI-33-S-6"	8/10/18	0.5	19.8			15.6		
	SSI-33-S-18"	8/10/18	1.5	11.7			2.69		
N/A	SSI-34-6"	6/11/18	0.5	23.7			4.30		
	SSI-34-18"	6/11/18	1.5	271	17.3	ND<0.50	5.18	--	--
	SSI-34-36"	6/11/18	3.0	9.72			2.87		
	SSI-34-A-6"	7/19/18	0.5	152	10.8	ND<0.50	--	--	--
	DUP56	7/19/18	0.5	146			--		
	SSI-34-A-18"	7/19/18	1.5	430	0.942	ND<0.50	--	--	--
	SSI-34-A-36"	7/19/18	3.0	11.5			--		
	SSI-34-B-6"	7/19/18	0.5	31.4	2.18	ND<0.50	--	--	--
	SSI-34-B-18"	7/19/18	1.5	11.5			--		
	SSI-34-C-6"	7/19/18	0.5	52.1	0.672	ND<0.50	--	--	--
	SSI-34-C-18"	7/19/18	1.5	14.2			--		
N/A	SSI-35-6"	6/11/18	0.5	22.9			4.46		
	DUP6	6/11/18	0.5	25.9			4.61		
	SSI-35-18"	6/11/18	1.5	55.1	0.840	ND<0.50	5.53	--	--
	SSI-35-36"	6/11/18	3.0	5.48			2.36		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
N/A	SSI-36-6"	6/11/18	0.5	26.1			3.76		
	SSI-36-18"	6/11/18	1.5	18.4			3.12		
	SSI-36-36"	6/11/18	3.0	17.7			2.59		
N/A	SSI-37-6"	6/11/18	0.5	33.8			4.70		
	SSI-37-18"	6/11/18	1.5	10.9			3.49		
	SSI-37-36"	6/11/18	3.0	3.86			2.55		
N/A	SSI-38-6"	6/11/18	0.5	72.8	6.89	ND<0.50	17.5	--	--
	SSI-38-18"	6/11/18	1.5	119	2.88	ND<0.50	5.39	--	--
	SSI-38-36"	6/11/18	3.0	5.15			3.13		
	SSI-38-A-6"	7/18/18	0.5	53.1	2.50	ND<0.50	8.41	--	--
	DUP48	7/18/18	0.5	11.0			3.04		
	SSI-38-A-18"	7/18/18	1.5	6.20			--		
	SSI-38-B-6"	7/18/18	0.5	35.6			6.14		
	SSI-38-B-18"	7/18/18	1.5	14.7			--		
	SSI-38-C-6"	7/18/18	0.5	139	11.7	ND<0.50	5.34	--	--
	SSI-38-C-18"	7/18/18	1.5	5.66			--		
	SSI-38-G-6"	7/18/18	0.5	103	2.49	ND<0.50	--	--	--
	SSI-38-G-18"	7/18/18	1.5	6.19			--		
N/A	SSI-39-6"	6/11/18	0.5	44.9			10.7		
	SSI-39-18"	6/11/18	1.5	43.5			4.35		
	SSI-39-36"	6/11/18	3.0	4.52			2.45		
N/A	SSI-40-6"	6/12/18	0.5	83.3	2.39	ND<0.50	7.07	--	--
	SSI-40-18"	6/12/18	1.5	10.4			3.74		
	SSI-40-36"	6/12/18	3.0	3.97			1.80		
	SSI-40-A-6"	7/18/18	0.5	44.9			--		
	SSI-40-B-6"	7/18/18	0.5	5.51			--		
	SSI-40-C-6"	7/18/18	0.5	5.25			--		
N/A	SSI-41-6"	6/12/18	0.5	28.5			4.05		
	DUP9	6/12/18	0.5	27.3			4.22		
	SSI-41-18"	6/12/18	1.5	6.94			3.06		
	SSI-41-36"	6/12/18	3.0	2.37			1.37		
N/A	SSI-42-6"	6/14/18	0.5	70.3	2.55	ND<0.50	18.6	--	--
	DUP17	6/14/18	0.5	73.9			18.3		
	SSI-42-18"	6/14/18	1.5	7.49			3.55		
	SSI-42-36"	6/14/18	3.0	3.63			2.16		
	SSI-42-A-6"	7/12/18	0.5	--			15.3		
	SSI-42-A-18"	7/12/18	1.5	--			1.66		
	SSI-42-B-6"	7/12/18	0.5	--			4.05		
	SSI-42-C-6"	7/12/18	0.5	--			6.72		
	SSI-42-D-6"	7/12/18	0.5	--			4.01		
N/A	SSI-43-6"	6/14/18	0.5	10.3			3.07		
	SSI-43-18"	6/14/18	1.5	8.85			6.95		
	SSI-43-36"	6/14/18	3.0	3.15			15.0		
	SSI-43-48"	6/14/18	4.0	--			9.47		
	SSI-43-A-6"	7/12/18	0.5	--			6.58		
	DUP28	7/12/18	0.5	--			19.7		
	SSI-43-A-18"	7/12/18	1.5	--			6.63		
	SSI-43-A-36"	7/12/18	3.0	--			2.76		
	SSI-43-B-6"	7/12/18	0.5	--			8.56		
	SSI-43-B-18"	7/12/18	1.5	--	--	--	50.7	ND<0.50	ND<0.50
	SSI-43-B-36"	7/12/18	3.0	--			11.0		
	SSI-43-C-6"	7/12/18	0.5	--			4.55		
	SSI-43-C-18"	7/12/18	1.5	--			1.91		
	SSI-43-C-36"	7/12/18	3.0	--			4.52		
	SSI-43-D-6"	7/12/18	0.5	--			4.43		
	SSI-43-F-18"	7/12/18	1.5	--			3.95		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
N/A	SSI-44-6"	6/14/18	0.5	22.4			6.96		
	SSI-44-18"	6/14/18	1.5	21.9			3.43		
	SSI-44-36"	6/14/18	3.0	3.18			2.39		
N/A	SSI-45-6"	6/14/18	0.5	26.4			5.63		
	SSI-45-18"	6/14/18	1.5	173	6.54	ND<0.50	7.05	--	--
	SSI-45-36"	6/14/18	3.0	4.04			2.67		
	SSI-45-A-6"	7/13/18	0.5	82.7	4.33	ND<0.50	--	--	--
	SSI-45-A-18"	7/13/18	1.5	258	2.06	ND<0.50	--	ND<0.50	ND<0.50
	SSI-45-A-36"	7/13/18	3.0	5.14			--		
	SSI-45-B-6"	7/13/18	0.5	64.5	1.15	ND<0.50	--	ND<0.50	ND<0.50
	SSI-45-B-18"	7/13/18	1.5	4.32			--		
	SSI-45-C-6"	7/13/18	0.5	6.82			--		
	SSI-45-C-18"	7/13/18	1.5	45.1			4.50		
	SSI-45-C-36"	7/13/18	3.0	186	11.3	ND<0.50	--	--	--
	SSI-45-C-60"	8/10/18	5.0	1.68			--		
	SSI-45-D-6"	7/13/18	0.5	65.9	2.09	ND<0.50	--	--	--
	SSI-45-D-18"	7/13/18	1.5	6.47			--		
	SSI-45-G-6"	7/13/18	0.5	--			23.5		
	SSI-45-G-18"	7/13/18	1.5	106	5.96	ND<0.50	16.7	--	--
	SSI-45-G-36"	7/13/18	3.0	ND <0.25			4.32		
N/A	SSI-46-6"	6/14/18	0.5	19.7			21.2		
	SSI-46-18"	6/14/18	1.5	5.18			2.48		
	SSI-46-36"	6/14/18	3.0	3.01			2.58		
	SSI-46-A-6"	7/13/18	0.5	--			31.1		
	SSI-46-A-18"	7/13/18	1.5	--			4.61		
	SSI-46-B-6"	7/13/18	0.5	--			9.39		
	SSI-46-C-6"	7/13/18	0.5	--			12.8		
	SSI-46-C-18"	7/13/18	1.5	--			3.05		
	SSI-46-D-6"	7/13/18	0.5	--			11.2		
	SSI-46-G-6"	7/13/18	0.5	--			7.04		
N/A	SSI-50-0.5'	8/11/18	0.5	48.1			3.10		
	DUP62	8/11/18	0.5	27.6			3.35		
N/A	SSI-51-0.5'	8/11/18	0.5	34.6			4.59		
N/A	SSI-52-6"	8/10/18	0.5	41.3			8.32		
N/A	SSI-53-6"	8/10/18	0.5	38.9			4.54		
N/A	SSI-54-6"	8/10/18	0.5	--			3.67		
N/A	SSI-55-6"	8/10/18	0.5	--			3.73		
N/A	SSI-56-6"	8/10/18	0.5	69.3	2.42	ND<0.50	13.9		
	DUP61	8/10/18	0.5	16.4			4.78		
	SSI-56-24"	8/10/18	2.0	--			3.96		
N/A	SSI-57-18"	8/10/18	1.5	--			26.8		
	SSI-57-30"	8/10/18	2.5	--			13.3		
	SSI-57-42"	8/10/18	3.5	--			4.92		
N/A	SSI-58-18"	8/10/18	1.5	--			7.80		
N/A	SSI-59-18"	8/10/18	1.5	--			12.1		
	SSI-59-42"	8/10/18	3.5	--			2.55		
N/A	SSI-60-18"	8/10/18	1.5	--			27.2		
	SSI-60-42"	8/10/18	3.5	--			3.60		
N/A	SSI-61-18"	8/10/18	1.5	--			7.77		
N/A	SSI-62-18"	8/10/18	1.5	--			4.12		
N/A	SSI-63-6"	8/10/18	0.5	--			18.4		
	SSI-63-18"	8/10/18	1.5	--			7.52		

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead			Arsenic		
		Units	**ft bgs**	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L
		USEPA Test Method	--	6020	STLC	TCLP	6020	STLC	TCLP
		Screening Level/Hazardous Waste Threshold	--	80	5	5	12	5	5
N/A	SSI-64-6"	8/10/18	0.5	48.0			25.6		
	SSI-64-36"	8/10/18	3.0	7.47			5.84		

Notes:

1. Arsenic and lead analyzed by USEPA Method 6020

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

"--" = not analyzed

Concentration exceeds screening level

Concentration indicates sample meets CAL-HAZ waste criteria

TABLE 3

COMBINED ANALYTICAL RESULTS FOR TPH IN SOIL

LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	TPH-g	TPH-d	TPH-o
		Units	ft bgs	mg/kg	mg/kg	mg/kg
		USEPA Test Method	--	8015M	8015M	8015M
SFB RWQCB ONL/LA RWQCB SSL (GW protection)			--	500	1,000	10,000
JH-21	A-10'	6/12/18	10	<0.1	<1.0	<1.0
	A-15'	6/12/18	15	<0.1	<1.0	<1.0
	A-20'	6/12/18	20	<0.1	2,110	<1.0
	A-25'	6/12/18	25	<0.1	<1.0	<1.0
	B-10'	6/12/18	10	<0.1	<1.0	<1.0
	DUP8	6/12/18	10	<0.1	<1.0	<1.0
	B-15'	6/12/18	15	<0.1	<1.0	<1.0
	B-20	6/12/18	20	<0.1	<1.0	<1.0
	B-25	6/12/18	25	<0.1	<1.0	<1.0
	C-10	6/12/18	10	<0.1	<1.0	<1.0
	C-15	6/12/18	15	<0.1	<1.0	<1.0
	C-20	6/12/18	20	<0.1	<1.0	<1.0
	C-25	6/12/18	25	<0.1	<1.0	<1.0
n/a	SSI-34-10'	7/19/18	10	<0.1	<1.0	<1.0
	SSI-34-15'	7/19/18	15	<0.1	<1.0	<1.0
	SSI-34-20'	7/19/18	20	<0.1	<1.0	<1.0
	SSI-34-25'	7/19/18	25	<0.1	<1.0	<1.0
n/a	SSI-36-60"	6/11/18	5	53.2	3,760	295
	SSI-36-10'	6/14/18	10	388	6,220	289
	SSI-36-15'	6/14/18	15	464	1,580	41.1
	SSI-36-20'	6/14/18	20	<0.1	1,640	37.1
	SSI-36-25'	6/14/18	25	<0.1	<1.0	<1.0
	SSI-36-30'	6/14/18	30	<0.1	<1.0	<1.0
n/a	SSI-47-10'	7/19/18	10	<0.1	<1.0	<1.0
	SSI-47-15'	7/19/18	15	<0.1	652	252
	SSI-47-20'	7/19/18	20	<0.1	6.5	<1.0
	DUP58	7/19/18	20	<0.1	<1.0	<1.0
	SSI-47-25'	7/19/18	25	<0.1	<1.0	<1.0
n/a	SSI-48-10'	7/19/18	10	<0.1	<1.0	<1.0
	SSI-48-15'	7/19/18	15	<0.1	309	40.5
	SSI-48-20'	7/19/18	20	<0.1	<1.0	<1.0
	DUP59	7/19/18	20	<0.1	<1.0	<1.0
	SSI-48-25'	7/19/18	25	<0.1	<1.0	<1.0

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COMBINED ANALYTICAL RESULTS FOR TPH IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	TPH-g	TPH-d	TPH-o
		Units	ft bgs	mg/kg	mg/kg	mg/kg
		USEPA Test Method	--	8015M	8015M	8015M
SFB RWQCB ONL/LA RWQCB SSL (GW protection)			--	500	1,000	10,000
n/a	SSI-49-10'	7/19/18	10	<0.1	<1.0	<1.0
	SSI-49-15'	7/19/18	15	<0.1	<1.0	<1.0
	SSI-49-20'	7/19/18	20	<0.1	<1.0	<1.0
	SSI-49-25'	7/19/18	25	<0.1	<1.0	<1.0
n/a	SSI-50-15'	8/13/18	15	<0.1	<1.0	<1.0
	DUP63	8/13/18	15	<0.1	<1.0	<1.0
	SSI-50-20'	8/13/18	20	<0.1	<1.0	<1.0
n/a	SSI-51-15'	8/13/18	15	<0.1	<1.0	<1.0
	SSI-51-20'	8/13/18	20	<0.1	<1.0	<1.0
n/a	30N/645E/DPT68-5	12/7/16	5	<0.5	<25	<400
	30N/645E/DPT68-5-DUP527	12/7/16	5	<0.5	<25	<400
	30N/645E/DPT68-10	12/7/16	10	<0.5	<25	<400
	30N/645E/DPT68-15	12/7/16	15	<0.5	<25	<400
	30N/645E/DPT68-20	12/7/16	20	<0.5	<25	<400
	30N/645E/DPT68-25	12/7/16	25	<0.5	<25	<400
n/a	30N/675E/DPT69-5	12/7/16	5	<0.5	<25	<400
	30N/675E/DPT69-10	12/7/16	10	<0.5	<25	<400
	30N/675E/DPT69-15	12/7/16	15	984	14,400	<400
	30N/675E/DPT69-15-DUP528	12/7/16	15	4.62	2,130	<400
	30N/675E/DPT69-20	12/7/16	20	<0.5	<25	<400
	30N/675E/DPT69-25	12/7/16	25	<0.5	<25	<400
n/a	30N/695E/DPT70-5	12/7/16	5	<0.5	<25	<400
	30N/695E/DPT70-10	12/7/16	10	<0.5	<25	<400
	30N/695E/DPT70-15	12/7/16	15	<0.5	138	<400
	30N/695E/DPT70-20	12/7/16	20	18.2	5,630	<400
	30N/695E/DPT70-20-DUP529	12/7/16	20	298	4,600	<400
	30N/695E/DPT70-25	12/7/16	25	<0.5	<25	<400
n/a	30N/720E/DPT71-5	12/7/16	5	<0.5	<25	<400
	30N/720E/DPT71-10	12/7/16	10	<0.5	<25	<400
	30N/720E/DPT71-15	12/7/16	15	<0.5	<25	<400
	30N/720E/DPT71-20	12/7/16	20	26.0	225	<400
	30N/7205E/DPT71-25	12/7/16	25	<0.5	<25	<400

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COMBINED ANALYTICAL RESULTS FOR TPH IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	TPH-g	TPH-d	TPH-o
		Units	ft bgs	mg/kg	mg/kg	mg/kg
		USEPA Test Method	--	8015M	8015M	8015M
SFB RWQCB ONL/LA RWQCB SSL (GW protection)			--	500	1,000	10,000
n/a	50N/645E/DPT65-5	12/7/16	5	<0.5	<25	<400
	50N/645E/DPT65-10	12/7/16	10	<0.5	<25	<400
	50N/645E/DPT65-15	12/7/16	15	<0.5	<25	<400
	50N/645E/DPT65-20	12/7/16	20	<0.5	<25	<400
	50N/645E/DPT65-25	12/7/16	25	<0.5	<25	<400
	50N/645E/DPT65-25-DUP526	12/7/16	25	<0.5	<25	<400
n/a	50N/695E/DPT66-5	12/7/16	5	9.3	3,070	<400
	50N/695E/DPT66-10	12/7/16	10	22.3	11,100	460
	50N/695E/DPT66-15	12/7/16	15	23.3	8,490	<400
	50N/695E/DPT66-20	12/7/16	20	1,050	10,800	<400
	50N/695E/DPT66-25	12/7/16	25	0.763	<25	<400
n/a	50N/720E/DPT67-5	12/7/16	5	<0.5	<25	<400
	50N/720E/DPT67-10	12/7/16	10	<0.5	<25	<400
	50N/720E/DPT67-15	12/7/16	15	<0.5	<25	<400
	50N/720E/DPT67-20	12/7/16	20	0.749	169	<400
	50N/720E/DPT67-25	12/7/16	25	<0.5	<25	<400
n/a	50.5N/662E/DPT50-5	9/23/16	5	12.2	10,300	<400
	50.5N/662E/DPT50-10	9/23/16	10	1,290	20,300	<400
	50.5N/662E/DPT50-15	9/23/16	15	12.9	3,680	<400
	50.5N/662E/DPT50-20	9/23/16	20	335	1,390	<400
	50.5N/662E/DPT50-25	9/23/16	25	<0.5	<25	<400
	50.5N/662E/DPT50-30	9/23/16	30	<0.5	<25	<400
	50.5N/662E/DPT50-35	9/23/16	35	<0.5	<25	<400
	50.5N/662E/DPT50-40	9/23/16	40	<0.5	<25	<400

TPH-g = total petroleum hydrocarbons in the gasoline range (C4-C12)
TPH-d = total petroleum hydrocarbons in the diesel range (C13-C22)
TPH-o = total petroleum hydrocarbons in the oil range (C23-C40)
ft bgs = feet below ground surface
mg/kg = milligrams/kilogram
SFB RWQCB = San Francisco Bay Regional Water Quality Control Board
LA RWQCB = Los Angeles Regional Water Quality Control Board
ONL = Odor Nuisance Level; SSL = Soil Screening Level
SL = Screening Level; GW = Groundwater

TABLE 4
STATISTICAL ANALYSIS OF LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-2	SSI-2-30"	6/13/18	2.5	4.47	--
	SSI-2-E-18"	6/13/18	1.5	56.1	--
	SSI-2-E-30"	6/13/18	2.5	3.93	--
	SSI-2-S-18"	6/13/18	1.5	28.5	--
	SSI-2-S-30"	6/13/18	2.5	4.28	--
	SSI-2-W-18"	6/13/18	1.5	15.2	--
	SSI-2-W-30"	6/13/18	2.5	5.20	--
	SSI-2-N/4-S-18"	6/13/18	1.5	20.4	3.42
	SSI-2-N/4-S-30"	6/13/18	2.5	4.67	2.71
JH-3	SSI-3-30"	6/14/18	0.5	--	3.62
	SSI-3-E/4-W-18"	6/13/18	1.5	41.7	11.0
	SSI-3-E/4-W-30"	6/13/18	2.5	6.40	3.80
	SSI-3-S-18"	6/14/18	1.5	--	4.15
	SSI-3-S-30"	6/14/18	2.5	--	2.62
	SSI-3-W-18"	6/12/18	1.5	--	3.71
	SSI-3-W-30"	6/12/18	2.5	--	1.09
	SSI-3-N-18"	6/14/18	1.5	--	11.3
	SSI-3-N-30"	6/14/18	2.5	--	30.7
	SSI-3-N-42"	6/14/18	3.5	--	2.58
	SSI-3-N-A-18"	7/17/18	1.5	--	10.5
	SSI-3-N-A-30"	7/17/18	2.5	--	3.45
	SSI-3-N-B-18"	7/17/18	1.5	--	10.5
	SSI-3-N-B-30"	7/17/18	2.5	--	16.2
	SSI-3-N-B-42"	7/17/18	3.5	--	2.59
	SSI-3-N-C-18"	7/17/18	1.5	--	22.7
	SSI-3-N-C-30"	7/17/18	2.5	--	14.5
	SSI-3-N-C-42"	7/17/18	3.5	--	1.55
	SSI-3-N-F-30"	7/17/18	2.5	--	12.9
	SSI-3-N-F-42"	7/17/18	3.5	--	100
	SSI-3-N-F-60"	8/10/18	5.0	--	2.58
	SSI-3-N-G-18"	7/17/18	1.5	--	16.2
	SSI-3-N-G-30"	7/17/18	2.5	--	6.59

TABLE 4
STATISTICAL ANALYSIS OF LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-4	SSI-4-30"	6/13/18	2.5	7.39	3.94
	SSI-4-N-18"	6/13/18	1.5	40.6	19.2
	SSI-4-N-30"	6/13/18	2.5	4.84	3.16
	SSI-4-N-A-18"	7/17/18	1.5	--	12.2
	SSI-4-N-A-30"	7/17/18	2.5	--	52.9
	SSI-4-N-A-60"	8/10/18	5.0	--	2.70
	SSI-4-N-B-18"	7/17/18	1.5	--	7.59
	SSI-4-N-C-18"	7/17/18	1.5	--	10.0
	SSI-4-N-D-18"	7/17/18	1.5	--	30.4
	SSI-4-N-D-30"	7/17/18	2.5	--	17.9
	SSI-4-N-D-60"	8/10/18	5.0	--	2.82
	SSI-4-E/5-W-6"	6/13/18	0.5	36.9	8.04
	SSI-4-E/5-W-18"	6/13/18	1.5	20.4	2.49
	SSI-4-E/5-W-30"	6/13/18	2.5	5.62	4.33
JH-5	SSI-5-E-1"	6/13/18	0	30.1	9.38
	SSI-5-E-6"	6/13/18	0.5	10.5	10.1
	SSI-5-S-1"	6/13/18	0	20.4	3.24
	SSI-5-S-6"	6/13/18	0.5	50.3	3.34
	SSI-5-N-1"	6/13/18	0	47.8	14.0
	SSI-5-N-6"	6/13/18	0.5	42.2	42.8
	SSI-5-N-24"	6/13/18	2.0	--	2.98
	SSI-5-N-A-6"	7/12/18	0.5	--	17.3
	SSI-5-N-A-18"	7/12/18	1.5	--	2.12
	SSI-5-N-B-6"	7/12/18	0.5	--	93.3
	SSI-5-N-B-18"	7/12/18	1.5	--	2.18
	SSI-5-N-C-6"	7/13/18	0.5	--	26.2
	SSI-5-N-C-18"	7/13/18	1.5	--	6.46
	SSI-5-N-D-6"	7/12/18	0.5	--	7.78
	SSI-5-N-F-6"	7/12/18	0.5	--	7.20
	SSI-5-N-G-6"	7/13/18	0.5	--	19.8
	SSI-5-N-G-18"	7/13/18	1.5	--	2.32

TABLE 4
STATISTICAL ANALYSIS OF LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-6	SSI-6-30"	6/14/18	2.5	20.3	4.38
	SSI-6-E-18"	6/14/18	1.5	75.5	27.8
	SSI-6-E-30"	6/14/18	2.5	34.2	25.4
	SSI-6-E-42"	6/14/18	3.5	--	3.99
	SSI-6-E-A-18"	7/12/18	1.5	--	9.47
	SSI-6-E-A-30"	7/12/18	2.5	--	13.9
	SSI-6-E-A-42"	7/12/18	3.5	--	46.5
	SSI-6-E-A-60"	8/10/18	5.0	--	2.72
	SSI-6-E-B-18"	7/12/18	1.5	--	51.4
	SSI-6-E-B-30"	7/12/18	2.5	--	5.53
	SSI-6-E-C-18"	7/12/18	1.5	--	6.63
	SSI-6-E-C-30"	7/12/18	2.5	--	4.71
	SSI-6-E-D-18"	7/12/18	1.5	--	3.78
	SSI-6-E-F-18"	7/12/18	1.5	--	12.9
	SSI-6-E-F-30"	7/12/18	2.5	--	31.4
	SSI-6-E-F-60"	8/10/18	5.0	--	0.934
	SSI-6-S-18"	6/14/18	1.5	7.42	13.1
	SSI-6-S-30"	6/14/18	2.5	4.18	4.26
	SSI-6-S-A-18"	7/12/18	1.5	--	24.7
	SSI-6-S-A-30"	7/12/18	2.5	--	2.88
	SSI-6-S-B-18"	7/12/18	1.5	--	8.92
	SSI-6-S-C-18"	7/12/18	1.5	--	8.14
	SSI-6-S-D-18"	7/12/18	1.5	--	9.82
	SSI-6-W-18"	6/14/18	1.5	12.0	9.01
	SSI-6-W-30"	6/14/18	2.5	5.69	2.99
	SSI-6-N/10-S-6"	6/14/18	0.5	--	12.3
	SSI-6-N/10-S-18"	6/14/18	1.5	5.89	3.83
	SSI-6-N/10-S-36"	6/14/18	3.0	5.68	4.04
	SSI-6-N/10-S-48"	6/14/18	4.0	7.05	6.03
	SSI-6-N/10-S-60"	6/14/18	5.0	--	1.77
	SSI-6-N/10-S-A-6"	7/12/18	0.5	--	3.60
	SSI-6-N/10-S-B-6"	7/12/18	0.5	--	12.5
	SSI-6-N/10-S-B-18"	7/12/18	1.5	--	4.43
	SSI-6-N/10-S-C-6"	7/12/18	0.5	--	18.3
	SSI-6-N/10-S-C-18"	7/12/18	1.5	--	47.7
	SSI-6-N/10-S-C-36"	8/10/18	3.0	--	4.05
	SSI-6-N/10-S-F-6"	7/12/18	0.5	--	7.10
	SSI-6-N/10-S-G-6"	7/12/18	0.5	--	23.1
	SSI-6-N/10-S-G-18"	7/12/18	1.5	--	25.1
	SSI-6-N/10-S-G-36"	8/10/18	3.0	--	30.9
	SSI-6-N/10-S-G-60"	8/10/18	5.0	--	2.42

TABLE 4
STATISTICAL ANALYSIS OF LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-7	SSI-7-30"	6/13/18	2.5	--	55.6
	SSI-7-42"	6/13/18	3.5	--	29.8
	SSI-7-60"	7/17/18	5.0	--	2.62
	SSI-7-A-30"	7/17/18	2.5	--	4.82
	SSI-7-B-30"	7/17/18	2.5	--	4.33
	SSI-7-C-30"	7/17/18	2.5	--	4.18
	SSI-7-E-18"	6/14/18	1.5	--	7.80
	SSI-7-E-30"	6/14/18	2.5	--	4.14
	SSI-7-S-18"	6/13/18	1.5	--	19.9
	SSI-7-S-30"	6/13/18	2.5	--	11.1
	SSI-7-S-A-18"	7/17/18	1.5	--	8.72
	SSI-7-S-B-18"	7/17/18	1.5	--	12.4
	SSI-7-S-B-30"	7/17/18	2.5	--	4.86
	SSI-7-S-C-18"	7/17/18	1.5	--	6.54
	SSI-7-S-F-18"	7/17/18	1.5	--	8.30
	SSI-7-W-18"	6/13/18	1.5	--	7.78
	SSI-7-W-30"	6/13/18	2.5	--	3.80
	SSI-7-N-18"	6/13/18	1.5	--	29.7
	SSI-7-N-30"	6/13/18	2.5	--	3.84
	SSI-7-N-A-18"	7/13/18	1.5	--	12.0
	SSI-7-N-A-30"	7/13/18	2.5	--	4.80
	SSI-7-N-B-18"	7/13/18	1.5	--	38.7
	SSI-7-N-B-30"	7/13/18	2.5	--	10.6
	SSI-7-N-C-18"	7/13/18	1.5	--	41.4
	SSI-7-N-C-30"	7/13/18	2.5	--	13.4
	SSI-7-N-C-42'	7/13/18	3.5	--	3.64
	SSI-7-N-D-18"	7/13/18	1.5	--	105
	SSI-7-N-D-30"	7/13/18	2.5	--	31.6
	SSI-7-N-D-42"	7/13/18	3.5	--	5.23
	SSI-7-N-F-18"	7/13/18	1.5	--	24.8
	SSI-7-N-F-30"	7/13/18	2.5	--	4.13
	SSI-7-N-G-18"	7/13/18	1.5	--	15.2
	SSI-7-N-G-30"	7/13/18	2.5	--	11.7

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LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-8	SSI-8-30"	6/14/18	2.5	--	4.76
	SSI-8-E-18"	6/13/18	1.5	--	10.5
	SSI-8-E-30"	6/13/18	2.5	--	12.6
	SSI-8-E-42"	6/13/18	3.5	--	4.12
	SSI-8-E-A-18"	7/17/18	1.5	--	16.6
	SSI-8-E-A-30"	7/17/18	2.5	--	24.1
	SSI-8-E-A-42"	7/17/18	3.5	--	3.74
	SSI-8-E-B-18"	7/17/18	1.5	--	18.9
	SSI-8-E-B-30"	7/17/18	2.5	--	5.20
	SSI-8-E-C-18"	7/17/18	1.5	--	10.8
	SSI-8-E-C-30"	7/17/18	2.5	--	4.87
	SSI-8-E-D-18"	7/17/18	1.5	--	13.5
	SSI-8-E-D-30"	7/17/18	2.5	--	6.72
	SSI-8-E-F-18"	7/17/18	1.5	--	22.9
	SSI-8-E-F-30"	7/17/18	2.5	--	7.4
	SSI-8-S-18"	6/14/18	1.5	--	5.94
	SSI-8-S-30"	6/14/18	2.5	--	3.07
	SSI-8-W-18"	6/12/18	1.5	--	5.47
	SSI-8-W-30"	6/12/18	2.5	--	3.06
	SSI-8-N/15-S-6"	6/13/18	0.5	--	9.58
	SSI-8-N/15-S-18"	6/13/18	1.5	22.3	10.5
	SSI-8-N/15-S-36"	6/13/18	3.0	--	4.00
	SSI-8-N/15-S-48"	6/13/18	4.0	--	1.76
JH-10	SSI-10-48"	6/11/18	4.0	--	12.5
	SSI-10-60"	6/11/18	5.0	--	6.22
	SSI-10-A-48"	7/12/18	4.0	--	32.3
	SSI-10-A-60"	7/12/18	5.0	--	26.9
	SSI-10-B-48"	7/12/18	4.0	--	3.59
	SSI-10-C-48"	7/12/18	4.0	--	1.63

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STATISTICAL ANALYSIS OF LEAD AND ARSENIC IN SOIL
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Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-12	SSI-12-48"	6/11/18	4.0	--	67.7
	SSI-12-60"	6/11/18	5.0	--	58.3
	SSI-12-90"	7/13/18	7.5	--	14.6
	SSI-12-120"	7/13/18	10.0	--	2.85
	SSI-12-A-48"	7/13/18	4.0	--	2.67
	SSI-12-A-90"	7/13/18	7.5	--	2.84
	SSI-12-B-48"	7/13/18	4.0	--	8.66
	SSI-12-B-90"	7/13/18	7.5	--	33.2
	SSI-12-B-120"	7/13/18	10.0	--	1.28
	SSI-12-C-90"	7/13/18	7.5	--	3.66
	SSI-12-S/13-S-18"	6/14/18	1.5	13.8	15.7
	SSI-12-S/13-S-36"	6/14/18	3.0	4.75	2.97
	SSI-12-S/13-S-48"	6/14/18	4.0	2.29	1.26
	SSI-12-S/13-S-A-18"	7/13/18	1.5	--	48.8
	SSI-12-S/13-S-A-36"	7/13/18	3.0	--	57.8
	SSI-12-S/13-S-A-60"	8/10/18	5.0	--	1.38
	SSI-12-S/13-S-B-18"	7/13/18	1.5	--	4.25
	SSI-12-S/13-S-C-18"	7/13/18	1.5	--	3.44
	SSI-12-S/13-S-D-18"	7/13/18	1.5	--	13.6
	SSI-12-S/13-S-D-36"	7/13/18	3.0	--	4.44
JH-13	SSI-13-48"	6/11/18	4.0	--	11.3
	SSI-13-W-18"	6/11/18	1.5	--	3.22
	SSI-13-W-36"	6/11/18	3.0	--	96.5
	SSI-13-W-60"	6/11/18	5.0	--	94.2
	SSI-13-W-90"	7/13/18	7.5	--	1.54
	SSI-13-W-A-18"	7/13/18	1.5	--	3.39
	SSI-13-W-A-36"	7/13/18	3.0	--	38.9
	SSI-13-W-A-60"	7/13/18	5.0	--	6.71
	SSI-13-W-B-18"	7/13/18	1.5	--	3.45
	SSI-13-W-B-36"	7/13/18	3.0	--	80.8
	SSI-13-W-B-60"	7/13/18	5.0	--	55.8
	SSI-13-W-B-90"	7/13/18	7.5	--	16.9
	SSI-13-W-B-120"	7/13/18	10.0	--	1.69
	SSI-13-W-C-18"	7/13/18	1.5	--	3.25
	SSI-13-W-C-36"	7/13/18	3.0	--	8.11
	SSI-13-W-D-36"	7/13/18	3.0	--	127
	SSI-13-W-D-60"	7/13/18	5.0	--	44.2
	SSI-13-W-D-120"	7/13/18	10.0		1.36
	SSI-13-W-F-36"	7/13/18	3.0	--	6.30

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Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-14	SSI-14-48"	6/11/18	4.0	--	46.1
	SSI-14-60"	6/11/18	5.0	--	50.0
	SSI-14-90"	7/16/18	7.5	--	1.03
	SSI-14-A-48"	7/16/18	4.0	--	143
	SSI-14-A-60"	7/16/18	5.0	--	59.0
	SSI-14-A-90"	7/16/18	7.5	--	25.0
	SSI-14-A-120"	7/16/18	10.0	--	3.39
	SSI-14-B-48"	7/16/18	4.0	--	5.54
	SSI-14-C-48"	7/16/18	4.0	--	94.2
	SSI-14-C-60"	7/16/18	5.0	--	81.8
	SSI-14-C-90"	7/16/18	7.5	--	61.8
	SSI-14-C-120"	7/16/18	10.0	--	36.9
	SSI-14-C-150"	8/10/18	12.5	--	33.1
	SSI-14-C-180"	8/10/18	15.0	--	21.1
	SSI-14-D-48"	7/16/18	4.0	--	78.9
	SSI-14-D-90"	7/16/18	7.5	--	11.9
	SSI-14-D-120"	7/16/18	10.0	--	5.11
	SSI-14-G-48"	7/16/18	4.0	--	66.2
	SSI-14-G-90"	7/16/18	7.5	--	56.9
	SSI-14-G-120"	7/16/18	10.0	--	14.1
	SSI-14-G-150"	8/10/18	12.5	--	12.6
	SSI-14-G-180"	8/10/18	15.0	--	6.66
	SSI-14-E-6"	6/11/18	0.5	--	11.2
	SSI-14-E-18"	6/11/18	1.5	38.8	8.75
	SSI-14-E-36"	6/11/18	3.0	--	12.1
	SSI-14-E-48"	6/11/18	4.0	--	23.1
	SSI-14-E-60"	6/11/18	5.0	--	50.2
	SSI-14-E-90"	7/16/18	7.5	--	15.2
	SSI-14-E-120"	7/16/18	10.0	--	2.89
	SSI-14-E-A-6"	7/16/18	0.5	--	2.71
	SSI-14-E-A-18"	7/16/18	1.5	--	27.3
	SSI-14-E-A-36"	7/16/18	3.0	--	49.5
	SSI-14-E-A-48"	7/16/18	4.0	--	44.6
	SSI-14-E-A-60"	7/16/18	5.0	--	8.07
	SSI-14-E-B-6"	7/16/18	0.5	--	12.9
	SSI-14-E-B-18"	7/16/18	1.5	--	9.01
	SSI-14-E-B-36"	7/16/18	3.0	--	5.99
	SSI-14-E-B-48"	7/16/18	4.0	--	11.5
	SSI-14-E-C-36"	7/16/18	3.0	--	30.3
	SSI-14-E-C-48"	7/16/18	4.0	--	13.2
	SSI-14-E-C-60"	7/16/18	5.0	--	16.5
	SSI-14-E-C-120"	7/16/18	10.0	--	2.73
	SSI-14-E-D-6"	7/16/18	0.5	--	36
	SSI-14-E-D-18"	7/16/18	1.5	--	52.5
	SSI-14-E-D-120"	7/16/18	10.0	--	2.04
	SSI-14-S-6"	6/13/18	0.5	--	8.78
	SSI-14-S-18"	6/13/18	1.5	32.8	12.1
	SSI-14-S-36"	6/13/18	3.0	--	5.30
	SSI-14-S-48"	6/13/18	4.0	--	1.89
	SSI-14-S-A-18"	7/16/18	1.5	--	22.9
	SSI-14-S-A-36"	7/16/18	3.0	--	4.5
	SSI-14-S-B-18"	7/16/18	1.5	--	13.6
	SSI-14-S-B-36"	7/16/18	3.0	--	5.96

TABLE 4
STATISTICAL ANALYSIS OF LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-14 (cont.)	SSI-14-S-C-18"	7/16/18	1.5	--	12.0
	SSI-14-S-C-36"	7/16/18	3.0	--	7.07
	SSI-14-S-D-18"	7/16/18	1.5	--	9.99
	SSI-14-S-F-18"	7/16/18	1.5	--	57.1
	SSI-14-S-F-36"	7/16/18	3.0	--	18.2
	SSI-14-S-F-48"	7/16/18	4.0	--	2.38
	SSI-14-S-G-18"	7/16/18	1.5	--	12.9
	SSI-14-S-G-36"	7/16/18	3.0	--	7.49
JH-15	SSI-15-6"	6/11/18	0.5	--	15.5
	SSI-15-18"	6/11/18	1.5	252	90.2
	SSI-15-36"	6/11/18	3.0	10.3	144
	SSI-15-48"	6/11/18	4.0	--	54.8
	SSI-15-60"	6/11/18	5.0	--	50.7
	SSI-15-90"	7/16/18	7.5	--	44.5
	SSI-15-120"	7/16/18	10.0	--	17.7
	SSI-15-150"	7/16/18	12.5	--	6.18
	SSI-15-A-6"	7/16/18	0.5	--	42.5
	SSI-15-A-18"	7/16/18	1.5	195	118
	SSI-15-A-36"	7/16/18	3.0	18.3	109
	SSI-15-A-48"	7/16/18	4.0	--	57.8
	SSI-15-A-60"	7/16/18	5.0	--	63.5
	SSI-15-A-90"	7/16/18	7.5	--	53.5
	SSI-15-A-120"	7/16/18	10.0	--	20.1
	SSI-15-B-6"	7/16/18	0.5	--	32.4
	SSI-15-B-18"	7/16/18	1.5	6.42	8.86
	SSI-15-B-36"	7/16/18	3.0	--	11.7
	SSI-15-B-48"	7/16/18	4.0	--	54.9
	SSI-15-B-60"	7/16/18	5.0	--	41.4
	SSI-15-B-90"	7/16/18	7.5	--	5.09
	SSI-15-C-6"	7/16/18	0.5	--	180
	SSI-15-C-18"	7/16/18	1.5	11.8	204
	SSI-15-C-36"	7/16/18	3.0	--	109
	SSI-15-C-48"	7/16/18	4.0	--	114
	SSI-15-C-60"	7/16/18	5.0	--	50.9
	SSI-15-C-90"	7/16/18	7.5	--	60.6
	SSI-15-C-120"	7/16/18	10.0	--	65.9
	SSI-15-D-6"	7/16/18	0.5	--	10.3
	SSI-15-D-48"	7/16/18	4.0	--	4.80
	SSI-15-F-6"	7/16/18	0.5	--	8.76
	SSI-15-F-18"	7/16/18	1.5	--	89.1
	SSI-15-F-48"	7/16/18	4.0	--	107
	SSI-15-F-120"	7/16/18	10.0	--	3.32
JH-17	SSI-17-E-6"	6/11/18	0.5	--	4.3
	SSI-17-W-6"	6/11/18	0.5	--	23.8
	SSI-17-W-24"	6/11/18	2.0	--	41.1
	SSI-17-W-48"	7/17/18	4.0	--	3.57
	SSI-17-W-A-6"	7/17/18	0.5	--	6.35
	SSI-17-W-A-24"	7/17/18	2.0	--	3.77
	SSI-17-W-B-6"	7/17/18	0.5	--	11.1
	SSI-17-W-B-24"	7/17/18	2.0	--	6.12
	SSI-17-W-C-6"	7/17/18	0.5	--	4.02
	SSI-17-W-C-24"	7/17/18	2.0	--	4.99

TABLE 4
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LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-18	SSI-18-E-6"	6/11/18	0.5	--	11.1
	SSI-18-W-6"	6/11/18	0.5	--	20.2
	SSI-18-W-24"	6/11/18	2.0	--	4.70
	SSI-18-W-A-6"	7/18/18	0.5	--	15.5
	SSI-18-W-A-24"	7/18/18	2.0	--	3.04
	SSI-18-W-B-6"	7/18/18	0.5	--	3.73
	SSI-18-W-C-6"	7/18/18	0.5	--	10.7
	SSI-18-W-D-6"	7/18/18	0.5	--	8.51
JH-19	SSI-19-E-18"	6/11/18	1.5	11.3	--
	SSI-19-W-18"	6/11/18	1.5	21.8	--
JH-28	SSI-28-E-6"	6/12/18	0.5	33.4	--
	SSI-28-N-6"	6/12/18	0.5	17.4	--
	SSI-28-W/29-E-6"	6/12/18	0.5	31.2	--
JH-29	SSI-29-W-6"	6/12/18	0.5	46.7	--
	SSI-29-N-6"	6/12/18	0.5	26.6	--
JH-30	SSI-30-S-6"	6/12/18	0.5	--	140
	SSI-30-S-24"	6/12/18	2.0	--	226
	SSI-30-S-36"	7/18/18	3.0	--	119
	SSI-30-S-60"	7/18/18	5.0	--	3.08
	SSI-30-S-A-6"	7/18/18	0.5	--	2.31
	SSI-30-S-A-36"	7/18/18	3.0	--	7.47
	SSI-30-S-B-6"	7/18/18	0.5	--	143
	SSI-30-S-B-24"	7/18/18	2.0	--	123
	SSI-30-S-B-36"	7/18/18	3.0	--	96.6
	SSI-30-S-B-60"	8/10/18	5.0	--	23.4
	SSI-30-S-B-90"	8/10/18	7.5	--	1.93
	SSI-30-S-C-6"	7/18/18	0.5	--	2.58
	SSI-30-S-C-36"	7/18/18	3.0	--	2.32
	SSI-30-S-D-6"	7/18/18	0.5	--	27.8
	SSI-30-S-D-36"	7/18/18	3.0	--	1.92
	SSI-30-W-6"	6/12/18	0.5	--	39.0
	SSI-30-W-24"	6/12/18	2.0	--	1.67
	SSI-30-W-A-6"	7/18/18	0.5	--	8.32
	SSI-30-W-B-6"	7/18/18	0.5	--	2.90
	SSI-30-W-C-6"	7/18/18	0.5	--	3.07
	SSI-30-N-6"	6/12/18	0.5	--	33.8
	SSI-30-N-24"	6/12/18	2.0	--	2.77
	SSI-30-N-A-6"	7/18/18	0.5	--	13.9
	SSI-30-N-A-24"	7/18/18	2.0	--	2.29
	SSI-30-N-B-6"	7/18/18	0.5	--	13.6
	SSI-30-N-B-24"	7/18/18	2.0	--	2.99
	SSI-30-N-C-6"	7/18/18	0.5	--	4.67
	SSI-30-N-D-6"	7/18/18	0.5	--	3.68
	SSI-30-N-F-6"	7/18/18	0.5	--	11.4

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LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
JH-31	SSI-31-E-6"	6/12/18	0.5	--	17.7
	SSI-31-E-24"	6/12/18	2.0	--	5.25
	SSI-31-E-A-6"	7/18/18	0.5	--	3.71
	SSI-31-E-B-6"	7/18/18	0.5	--	3.52
	SSI-31-E-C-6"	7/18/18	0.5	--	2.91
	SSI-31-S-6"	6/12/18	0.5	--	4.81
	SSI-31-W-6"	6/12/18	0.5	--	3.64
	SSI-31-N-6"	6/12/18	0.5	--	79.1
	SSI-31-N-24"	6/12/18	2.0	--	2.19
	SSI-31-N-A-6"	7/19/18	0.5	--	52.6
	SSI-31-N-A-24"	7/19/18	2.0	--	1.65
	SSI-31-N-B-6"	7/19/18	0.5	--	91.2
	SSI-31-N-B-24"	7/19/18	2.0	--	2.5
	SSI-31-N-C-6"	7/19/18	0.5	--	9.18
	SSI-31-N-D-6"	7/19/18	0.5	--	49.1
	SSI-31-N-D-24"	7/19/18	2.0	--	2.37
	SSI-31-N-F-6"	7/19/18	0.5	--	57.6
	SSI-31-N-F-24"	7/19/18	2.0	--	2.46
N/A	SSI-32-6"	6/12/18	0.5	327	21.1
	SSI-32-18"	6/12/18	1.5	68.4	18.8
	SSI-32-36"	6/12/18	3.0	4.23	2.88
	SSI-32-A-6"	7/19/18	0.5	1,220	34.6
	SSI-32-A-18"	7/19/18	1.5	13.70	5.11
	SSI-32-B-6"	7/19/18	0.5	874	55.2
	SSI-32-B-18"	7/19/18	1.5	88.5	48.2
	SSI-32-B-36"	7/19/18	3.0	8.89	10.1
	SSI-32-C-6"	7/19/18	0.5	--	6.67
	SSI-32-C-18"	7/19/18	1.5	--	5.75
	SSI-32-D-6"	7/19/18	0.5	7.78	16.9
	SSI-32-D-18"	7/19/18	1.5	--	13.7
	SSI-32-D-36"	7/19/18	3.0	--	3.46
	SSI-32-E-6"	8/10/18	0.5	--	6.72
N/A	SSI-33-6"	6/11/18	0.5	23.5	5.43
	SSI-33-18"	6/11/18	1.5	53.8	5.35
	SSI-33-36"	6/11/18	3.0	8.13	2.20
	SSI-33-S-6"	8/10/18	0.5	19.8	15.6
	SSI-33-S-18"	8/10/18	1.5	11.7	2.69
N/A	SSI-34-6"	6/11/18	0.5	23.7	4.30
	SSI-34-18"	6/11/18	1.5	271	5.18
	SSI-34-36"	6/11/18	3.0	9.72	2.87
	SSI-34-A-6"	7/19/18	0.5	152	--
	SSI-34-A-18"	7/19/18	1.5	430	--
	SSI-34-A-36"	7/19/18	3.0	11.5	--
	SSI-34-B-6"	7/19/18	0.5	31.4	--
	SSI-34-B-18"	7/19/18	1.5	11.5	--
	SSI-34-C-6"	7/19/18	0.5	52.1	--
	SSI-34-C-18"	7/19/18	1.5	14.2	--
N/A	SSI-35-6"	6/11/18	0.5	25.9	4.61
	SSI-35-18"	6/11/18	1.5	55.1	5.53
	SSI-35-36"	6/11/18	3.0	5.48	2.36

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LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
N/A	SSI-36-6"	6/11/18	0.5	26.1	3.76
	SSI-36-18"	6/11/18	1.5	18.4	3.12
	SSI-36-36"	6/11/18	3.0	17.7	2.59
N/A	SSI-37-6"	6/11/18	0.5	33.8	4.70
	SSI-37-18"	6/11/18	1.5	10.9	3.49
	SSI-37-36"	6/11/18	3.0	3.86	2.55
N/A	SSI-38-6"	6/11/18	0.5	72.8	17.5
	SSI-38-18"	6/11/18	1.5	119	5.39
	SSI-38-36"	6/11/18	3.0	5.15	3.13
	SSI-38-A-6"	7/18/18	0.5	53.1	8.41
	SSI-38-A-18"	7/18/18	1.5	6.20	--
	SSI-38-B-6"	7/18/18	0.5	35.6	6.14
	SSI-38-B-18"	7/18/18	1.5	14.7	--
	SSI-38-C-6"	7/18/18	0.5	139	5.34
	SSI-38-C-18"	7/18/18	1.5	5.66	--
	SSI-38-G-6"	7/18/18	0.5	103	--
	SSI-38-G-18"	7/18/18	1.5	6.19	--
N/A	SSI-39-6"	6/11/18	0.5	44.9	10.7
	SSI-39-18"	6/11/18	1.5	43.5	4.35
	SSI-39-36"	6/11/18	3.0	4.52	2.45
N/A	SSI-40-6"	6/12/18	0.5	83.3	7.07
	SSI-40-18"	6/12/18	1.5	10.4	3.74
	SSI-40-36"	6/12/18	3.0	3.97	1.80
	SSI-40-A-6"	7/18/18	0.5	44.9	--
	SSI-40-B-6"	7/18/18	0.5	5.51	--
	SSI-40-C-6"	7/18/18	0.5	5.25	--
N/A	SSI-41-6"	6/12/18	0.5	28.5	4.22
	SSI-41-18"	6/12/18	1.5	6.94	3.06
	SSI-41-36"	6/12/18	3.0	2.37	1.37
N/A	SSI-42-6"	6/14/18	0.5	73.9	18.6
	SSI-42-18"	6/14/18	1.5	7.49	3.55
	SSI-42-36"	6/14/18	3.0	3.63	2.16
	SSI-42-A-6"	7/12/18	0.5	--	15.3
	SSI-42-A-18"	7/12/18	1.5	--	1.66
	SSI-42-B-6"	7/12/18	0.5	--	4.05
	SSI-42-C-6"	7/12/18	0.5	--	6.72
	SSI-42-D-6"	7/12/18	0.5	--	4.01
N/A	SSI-43-6"	6/14/18	0.5	10.3	3.07
	SSI-43-18"	6/14/18	1.5	8.85	6.95
	SSI-43-36"	6/14/18	3.0	3.15	15.0
	SSI-43-48"	6/14/18	4.0	--	9.47
	SSI-43-A-6"	7/12/18	0.5	--	19.7
	SSI-43-A-18"	7/12/18	1.5	--	6.63
	SSI-43-A-36"	7/12/18	3.0	--	2.76
	SSI-43-B-6"	7/12/18	0.5	--	8.56
	SSI-43-B-18"	7/12/18	1.5	--	50.7
	SSI-43-B-36"	7/12/18	3.0	--	11.0
	SSI-43-C-6"	7/12/18	0.5	--	4.55
	SSI-43-C-18"	7/12/18	1.5	--	1.91
	SSI-43-C-36"	7/12/18	3.0	--	4.52
	SSI-43-D-6"	7/12/18	0.5	--	4.43
	SSI-43-F-18"	7/12/18	1.5	--	3.95

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LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
N/A	SSI-44-6"	6/14/18	0.5	22.4	6.96
	SSI-44-18"	6/14/18	1.5	21.9	3.43
	SSI-44-36"	6/14/18	3.0	3.18	2.39
N/A	SSI-45-6"	6/14/18	0.5	26.4	5.63
	SSI-45-18"	6/14/18	1.5	173	7.05
	SSI-45-36"	6/14/18	3.0	4.04	2.67
	SSI-45-A-6"	7/13/18	0.5	82.7	--
	SSI-45-A-18"	7/13/18	1.5	258	--
	SSI-45-A-36"	7/13/18	3.0	5.14	--
	SSI-45-B-6"	7/13/18	0.5	64.5	--
	SSI-45-B-18"	7/13/18	1.5	4.32	--
	SSI-45-C-6"	7/13/18	0.5	6.82	--
	SSI-45-C-18"	7/13/18	1.5	45.1	4.50
	SSI-45-C-36"	7/13/18	3.0	186	--
	SSI-45-C-60"	8/10/18	5.0	1.68	--
	SSI-45-D-6"	7/13/18	0.5	65.9	--
	SSI-45-D-18"	7/13/18	1.5	6.47	--
	SSI-45-G-6"	7/13/18	0.5	--	23.5
	SSI-45-G-18"	7/13/18	1.5	106	16.7
	SSI-45-G-36"	7/13/18	3.0	*0.125*	4.32
N/A	SSI-46-6"	6/14/18	0.5	19.7	21.2
	SSI-46-18"	6/14/18	1.5	5.18	2.48
	SSI-46-36"	6/14/18	3.0	3.01	2.58
	SSI-46-A-6"	7/13/18	0.5	--	31.1
	SSI-46-A-18"	7/13/18	1.5	--	4.61
	SSI-46-B-6"	7/13/18	0.5	--	9.39
	SSI-46-C-6"	7/13/18	0.5	--	12.8
	SSI-46-C-18"	7/13/18	1.5	--	3.05
	SSI-46-D-6"	7/13/18	0.5	--	11.2
	SSI-46-G-6"	7/13/18	0.5	--	7.04
N/A	SSI-50-0.5'	8/11/18	0.5	48.1	3.35
N/A	SSI-51-0.5'	8/11/18	0.5	34.6	4.59
N/A	SSI-52-6"	8/10/18	0.5	41.3	8.32
N/A	SSI-53-6"	8/10/18	0.5	38.9	4.54
N/A	SSI-54-6"	8/10/18	0.5	--	3.67
N/A	SSI-55-6"	8/10/18	0.5	--	3.73
N/A	SSI-56-6"	8/10/18	0.5	69.3	13.9
	SSI-56-24"	8/10/18	2.0	--	3.96
N/A	SSI-57-18"	8/10/18	1.5	--	26.8
	SSI-57-30"	8/10/18	2.5	--	13.3
	SSI-57-42"	8/10/18	3.5	--	4.92
N/A	SSI-58-18"	8/10/18	1.5	--	7.80
N/A	SSI-59-18"	8/10/18	1.5	--	12.1
	SSI-59-42"	8/10/18	3.5	--	2.55
N/A	SSI-60-18"	8/10/18	1.5	--	27.2
	SSI-60-42"	8/10/18	3.5	--	3.60
N/A	SSI-61-18"	8/10/18	1.5	--	7.77
N/A	SSI-62-18"	8/10/18	1.5	--	4.12
N/A	SSI-63-6"	8/10/18	0.5	--	18.4
	SSI-63-18"	8/10/18	1.5	--	7.52

TABLE 4
STATISTICAL ANALYSIS OF LEAD AND ARSENIC IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic
		Units	**ft bgs**	mg/kg	mg/kg
		USEPA Test Method	--	6020	6020
		Screening Level/Hazardous Waste Threshold	--	80	12
N/A	SSI-64-6"	8/10/18	0.5	48.0	25.6
	SSI-64-36"	8/10/18	3.0	7.47	5.84
Number of Samples				143	469
Number of Detects				142	469
Frequency				99%	100%
Maximum				1220	226
Minimum				0.13	0.93
Arithmetic Mean				54.32	19.97
Standard Deviation				136.17	30.19
tn-1(0.05)				1.659	1.654
95% UCL				73.21	22.27
Reporting Limit				0.250	0.500

Notes:

Arsenic and lead analyzed by USEPA Method 6020

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

"--" = not analyzed

Concentration exceeds screening level

Numbers in italics are 1/2 the detection limit.

UCL- Upper Confidence Limit

Calculation for 95% UCL: arith.mean + {tn-1(0.05)*[std dev/(# samples)^.5]}

The maximum concentrations detected in duplicate samples were used in the statistical analysis.

TABLE 5

STATISTICAL ANALYSIS OF COMBINED ANALYTICAL RESULTS FOR TPH IN SOIL

LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	TPH-g	TPH-d	TPH-o
		Units	ft bgs	mg/kg	mg/kg	mg/kg
		USEPA Test Method	--	8015M	8015M	8015M
SFB RWQCB ONL/LA RWQCB SSL (GW protection)			--	500	1,000	10,000
JH-21	A-10'	6/12/18	10	*0.05*	*0.5*	*0.5*
	A-15'	6/12/18	15	*0.05*	*0.5*	*0.5*
	A-20'	6/12/18	20	*0.05*	2,110	*0.5*
	A-25'	6/12/18	25	*0.05*	*0.5*	*0.5*
	B-10'	6/12/18	10	*0.05*	*0.5*	*0.5*
	DUP8	6/12/18	10	*0.05*	*0.5*	*0.5*
	B-15'	6/12/18	15	*0.05*	*0.5*	*0.5*
	B-20	6/12/18	20	*0.05*	*0.5*	*0.5*
	B-25	6/12/18	25	*0.05*	*0.5*	*0.5*
	C-10	6/12/18	10	*0.05*	*0.5*	*0.5*
	C-15	6/12/18	15	*0.05*	*0.5*	*0.5*
	C-20	6/12/18	20	*0.05*	*0.5*	*0.5*
	C-25	6/12/18	25	*0.05*	*0.5*	*0.5*
n/a	SSI-34-10'	7/19/18	10	*0.05*	*0.5*	*0.5*
	SSI-34-15'	7/19/18	15	*0.05*	*0.5*	*0.5*
	SSI-34-20'	7/19/18	20	*0.05*	*0.5*	*0.5*
	SSI-34-25'	7/19/18	25	*0.05*	*0.5*	*0.5*
n/a	SSI-36-60"	6/11/18	5	53.2	3,760	295
	SSI-36-10'	6/14/18	10	388	6,220	289
	SSI-36-15'	6/14/18	15	464	1,580	41.1
	SSI-36-20'	6/14/18	20	*0.05*	1,640	37.1
	SSI-36-25'	6/14/18	25	*0.05*	*0.5*	*0.5*
	SSI-36-30'	6/14/18	30	*0.05*	*0.5*	*0.5*
n/a	SSI-47-10'	7/19/18	10	*0.05*	*0.5*	*0.5*
	SSI-47-15'	7/19/18	15	*0.05*	652	252
	SSI-47-20'	7/19/18	20	*0.05*	6.5	*0.5*
	DUP58	7/19/18	20	*0.05*	*0.5*	*0.5*
	SSI-47-25'	7/19/18	25	*0.05*	*0.5*	*0.5*
n/a	SSI-48-10'	7/19/18	10	*0.05*	*0.5*	*0.5*
	SSI-48-15'	7/19/18	15	*0.05*	309	40.5
	SSI-48-20'	7/19/18	20	*0.05*	*0.5*	*0.5*
	DUP59	7/19/18	20	*0.05*	*0.5*	*0.5*
	SSI-48-25'	7/19/18	25	*0.05*	*0.5*	*0.5*

TABLE 5
STATISTICAL ANALYSIS OF COMBINED ANALYTICAL RESULTS FOR TPH IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	TPH-g	TPH-d	TPH-o
		Units	ft bgs	mg/kg	mg/kg	mg/kg
		USEPA Test Method	--	8015M	8015M	8015M
SFB RWQCB ONL/LA RWQCB SSL (GW protection)			--	500	1,000	10,000
n/a	SSI-49-10'	7/19/18	10	*0.05*	*0.5*	*0.5*
	SSI-49-15'	7/19/18	15	*0.05*	*0.5*	*0.5*
	SSI-49-20'	7/19/18	20	*0.05*	*0.5*	*0.5*
	SSI-49-25'	7/19/18	25	*0.05*	*0.5*	*0.5*
n/a	SSI-50-15'	8/13/18	15	*0.05*	*0.5*	*0.5*
	DUP63	8/13/18	15	*0.05*	*0.5*	*0.5*
	SSI-50-20'	8/13/18	20	*0.05*	*0.5*	*0.5*
n/a	SSI-51-15'	8/13/18	15	*0.05*	*0.5*	*0.5*
	SSI-51-20'	8/13/18	20	*0.05*	*0.5*	*0.5*
n/a	30N/645E/DPT68-5	12/7/16	5	*0.25*	*12.5*	*200*
	30N/645E/DPT68-5-DUP527	12/7/16	5	*0.25*	*12.5*	*200*
	30N/645E/DPT68-10	12/7/16	10	*0.25*	*12.5*	*200*
	30N/645E/DPT68-15	12/7/16	15	*0.25*	*12.5*	*200*
	30N/645E/DPT68-20	12/7/16	20	*0.25*	*12.5*	*200*
	30N/645E/DPT68-25	12/7/16	25	*0.25*	*12.5*	*200*
n/a	30N/675E/DPT69-5	12/7/16	5	*0.25*	*12.5*	*200*
	30N/675E/DPT69-10	12/7/16	10	*0.25*	*12.5*	*200*
	30N/675E/DPT69-15	12/7/16	15	984	14,400	*200*
	30N/675E/DPT69-15-DUP528	12/7/16	15	4.62	2,130	*200*
	30N/675E/DPT69-20	12/7/16	20	*0.25*	*12.5*	*200*
	30N/675E/DPT69-25	12/7/16	25	*0.25*	*12.5*	*200*
n/a	30N/695E/DPT70-5	12/7/16	5	*0.25*	*12.5*	*200*
	30N/695E/DPT70-10	12/7/16	10	*0.25*	*12.5*	*200*
	30N/695E/DPT70-15	12/7/16	15	*0.25*	138	*200*
	30N/695E/DPT70-20	12/7/16	20	18.2	5,630	*200*
	30N/695E/DPT70-20-DUP529	12/7/16	20	298	4,600	*200*
	30N/695E/DPT70-25	12/7/16	25	*0.25*	*12.5*	*200*
n/a	30N/720E/DPT71-5	12/7/16	5	*0.25*	*12.5*	*200*
	30N/720E/DPT71-10	12/7/16	10	*0.25*	*12.5*	*200*
	30N/720E/DPT71-15	12/7/16	15	*0.25*	*12.5*	*200*
	30N/720E/DPT71-20	12/7/16	20	26.0	225	*200*
	30N/7205E/DPT71-25	12/7/16	25	*0.25*	*12.5*	*200*

TABLE 5
STATISTICAL ANALYSIS OF COMBINED ANALYTICAL RESULTS FOR TPH IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	TPH-g	TPH-d	TPH-o
		Units	ft bgs	mg/kg	mg/kg	mg/kg
		USEPA Test Method	--	8015M	8015M	8015M
SFB RWQCB ONL/LA RWQCB SSL (GW protection)			--	500	1,000	10,000
n/a	50N/645E/DPT65-5	12/7/16	5	*0.25*	*12.5*	*200*
	50N/645E/DPT65-10	12/7/16	10	*0.25*	*12.5*	*200*
	50N/645E/DPT65-15	12/7/16	15	*0.25*	*12.5*	*200*
	50N/645E/DPT65-20	12/7/16	20	*0.25*	*12.5*	*200*
	50N/645E/DPT65-25	12/7/16	25	*0.25*	*12.5*	*200*
	50N/645E/DPT65-25-DUP526	12/7/16	25	*0.25*	*12.5*	*200*
n/a	50N/695E/DPT66-5	12/7/16	5	9.3	3,070	*200*
	50N/695E/DPT66-10	12/7/16	10	22.3	11,100	460
	50N/695E/DPT66-15	12/7/16	15	23.3	8,490	*200*
	50N/695E/DPT66-20	12/7/16	20	1,050	10,800	*200*
	50N/695E/DPT66-25	12/7/16	25	0.763	*12.5*	*200*
n/a	50N/720E/DPT67-5	12/7/16	5	*0.25*	*12.5*	*200*
	50N/720E/DPT67-10	12/7/16	10	*0.25*	*12.5*	*200*
	50N/720E/DPT67-15	12/7/16	15	*0.25*	*12.5*	*200*
	50N/720E/DPT67-20	12/7/16	20	0.749	169	*200*
	50N/720E/DPT67-25	12/7/16	25	*0.25*	*12.5*	*200*
n/a	50.5N/662E/DPT50-5	9/23/16	5	12.2	10,300	*200*
	50.5N/662E/DPT50-10	9/23/16	10	1,290	20,300	*200*
	50.5N/662E/DPT50-15	9/23/16	15	12.9	3,680	*200*
	50.5N/662E/DPT50-20	9/23/16	20	335	1,390	*200*
	50.5N/662E/DPT50-25	9/23/16	25	*0.25*	*12.5*	*200*
	50.5N/662E/DPT50-30	9/23/16	30	*0.25*	*12.5*	*200*
	50.5N/662E/DPT50-35	9/23/16	35	*0.25*	*12.5*	*200*
	50.5N/662E/DPT50-40	9/23/16	40	*0.25*	*12.5*	*200*
Number of Samples				89	89	89
Number of Detects				18	23	7
Frequency				20%	26%	8%
Maximum				1290	20300	460
Minimum				0.05	0.50	0.50
Arithmetic Mean				56.21	1270.97	119.47
Standard Deviation				213.89	3436.24	107.67
tn-1(0.05)				1.666	1.666	1.666
95% UCL				93.98	1877.80	138.48

TABLE 5
STATISTICAL ANALYSIS OF COMBINED ANALYTICAL RESULTS FOR TPH IN SOIL
LAUSD David Starr Jordan Senior High School SSI

Location	Sample ID	Sample Date	Sample Depth	TPH-g	TPH-d	TPH-o
		Units	ft bgs	mg/kg	mg/kg	mg/kg
		USEPA Test Method	--	8015M	8015M	8015M
SFB RWQCB ONL/LA RWQCB SSL (GW protection)			--	500	1,000	10,000
Reporting Limit				0.100	1.000	1.000

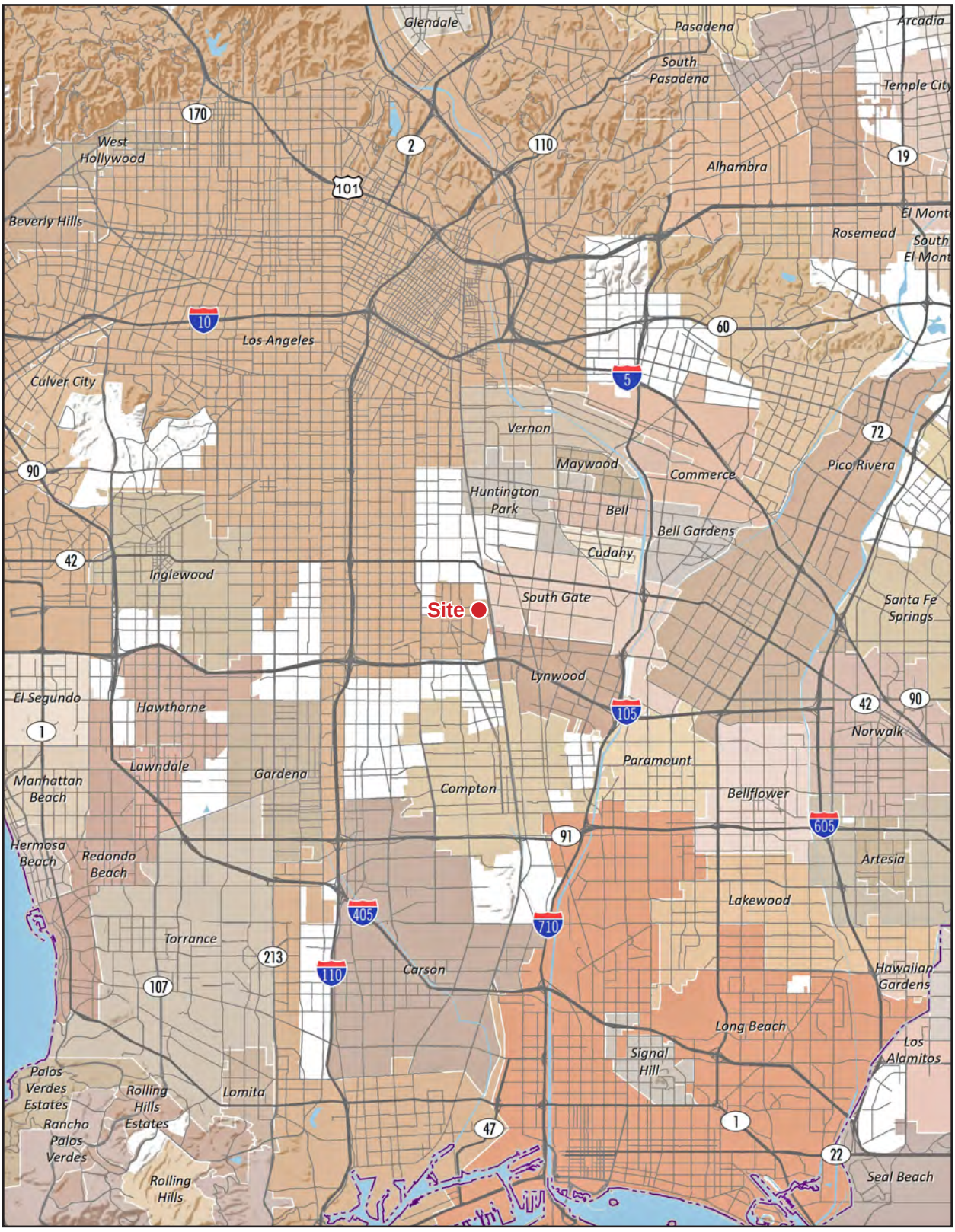
TPH-g = total petroleum hydrocarbons in the gasoline range (C4-C12)
TPH-d = total petroleum hydrocarbons in the diesel range (C13-C22)
TPH-o = total petroleum hydrocarbons in the oil range (C23-C40)
ft bgs = feet below ground surface
mg/kg = milligrams/kilogram
SFB RWQCB = San Francisco Bay Regional Water Quality Control Board
LA RWQCB = Los Angeles Regional Water Quality Control Board
ONL = Odor Nuisance Level; SSL = Soil Screening Level
SL = Screening Level; GW = Groundwater
Reporting Limits were as follows for Anderson Environmental data: TPH-g - 0.5 mg/kg; TPH-d - 25 mg/kg; TPH-o - 400 mg/kg
Numbers in italics are 1/2 the detection limit.
UCL- Upper Confidence Limit
Calculation for 95% UCL: arith.mean + {tn-1(0.05)*[std dev/(# samples)^.5]}
The maximum concentrations detected in duplicate samples were used in the statistical analysis.

TABLE 6
ESTIMATED IN-SITU SOIL REMOVAL VOLUMES
LAUSD David Starr Jordan Senior High School SSI

Excavation Area Name	Surface Area (ft^2)	Bottom (ft bgs)	Total Volume (yd^3)	Volume of Cal-Hazardous Waste (yd^3)	Volume of Non-Hazardous Waste (yd^3)
2	100	2.5	9.26		9.26
3	100	2.5	9.26		9.26
3-N/59	2400	5	444		444
4	100	2.5	9.26		9.26
4-N/61	625	5	116		116
5/5-N	1400	1.5	77.8		77.8
6	100	2.5	9.26		9.26
6-E/6-N/10-S	1050	5	194		194
6-S	225	2.5	20.8		20.8
7	100	5	18.5		18.5
7-N	600	4	38.5	1.39	37.11
7-S	225	2.5	20.8		20.8
8	100	2.5	9.26		9.26
8-E	500	4	74.1		74.1
10	300	7.5	83.3		83.3
12	600	10	222		222
12-S/13-S	600	5	111		111
13	100	4	14.8		14.8
13-W	450	10	167		167
14/14-E/16	1050	10	389	3.70	385.3
14-S	750	4	111		111
15	100	15	55.6	22.2	33.4
17	100	1.5	5.56		5.56
17-W	100	4	14.8		14.8
18	100	1.5	5.56		5.56
18-W	150	2	11.1		11.1
19	450	3	50		50
28	450	1.5	25		25
29	450	1.5	25		25
30	100	1.5	5.56		5.56
30-N/56	600	2	44.4		44.4
30-S	250	7.5	69.4	11.1	58.3
30-W	100	2	7.41		7.41
31	100	1.5	5.56		5.56
31-E	100	2	7.41		7.41
31-N	600	2	44.4		44.4
32/33-S	650	3	72.2	3.70	68.5
34	150	3	16.7	8.33	8.37
36	1355	10-20	652		652
38	250	3	27.8	2.78	25.02
40	100	1.5	5.56		5.56
42	225	1.5	12.5		12.5
43	300	4	44.4		44.4
45/64	600	5	111	22.2	88.8
46	300	1.5	16.7		16.7
Grand Total (yd^3)			**3484.52**	**75.4**	**3409.12**

Figures

Figure 1 - Site Location



Note: Unincorporated county areas are shown in white.

0 3
Scale (Miles)

Source: ESRI, 2018

Figure 2 - Aerial Photograph

School Boundary

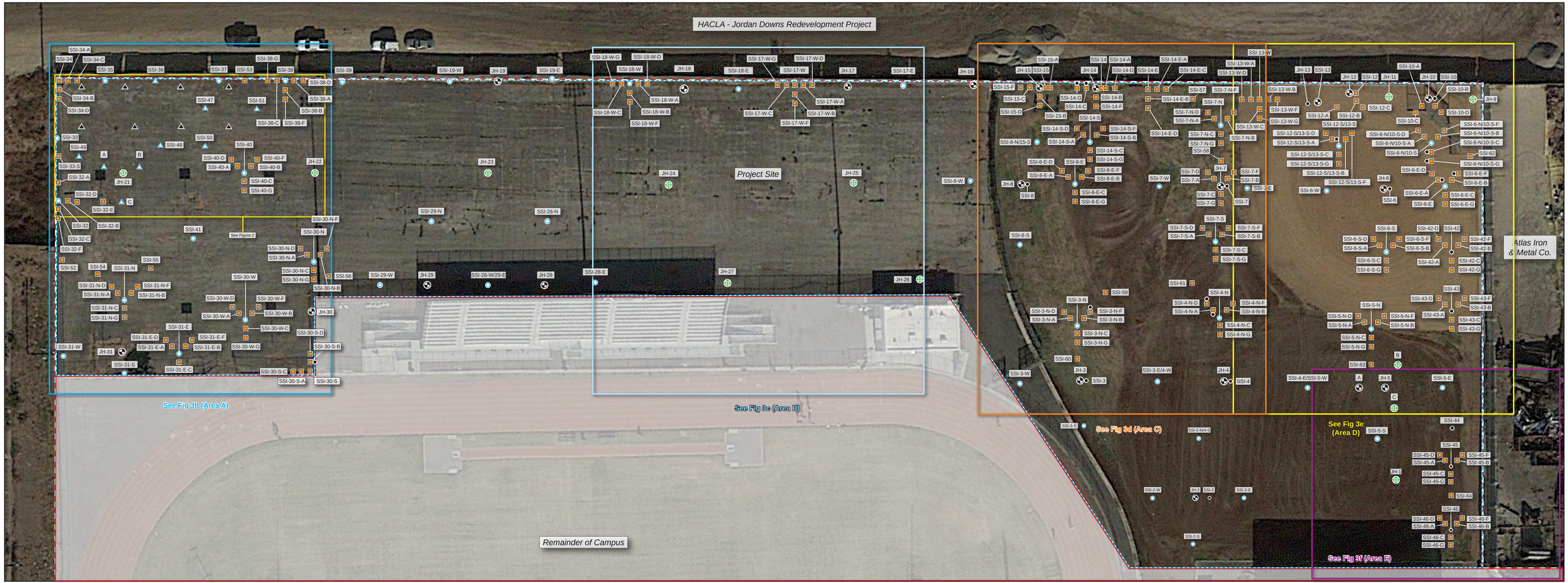
Southern Boundary of Site

0 350

Scale (Feet)

Source: Google Earth Pro, 2017

Figure 3a - Sample Locations



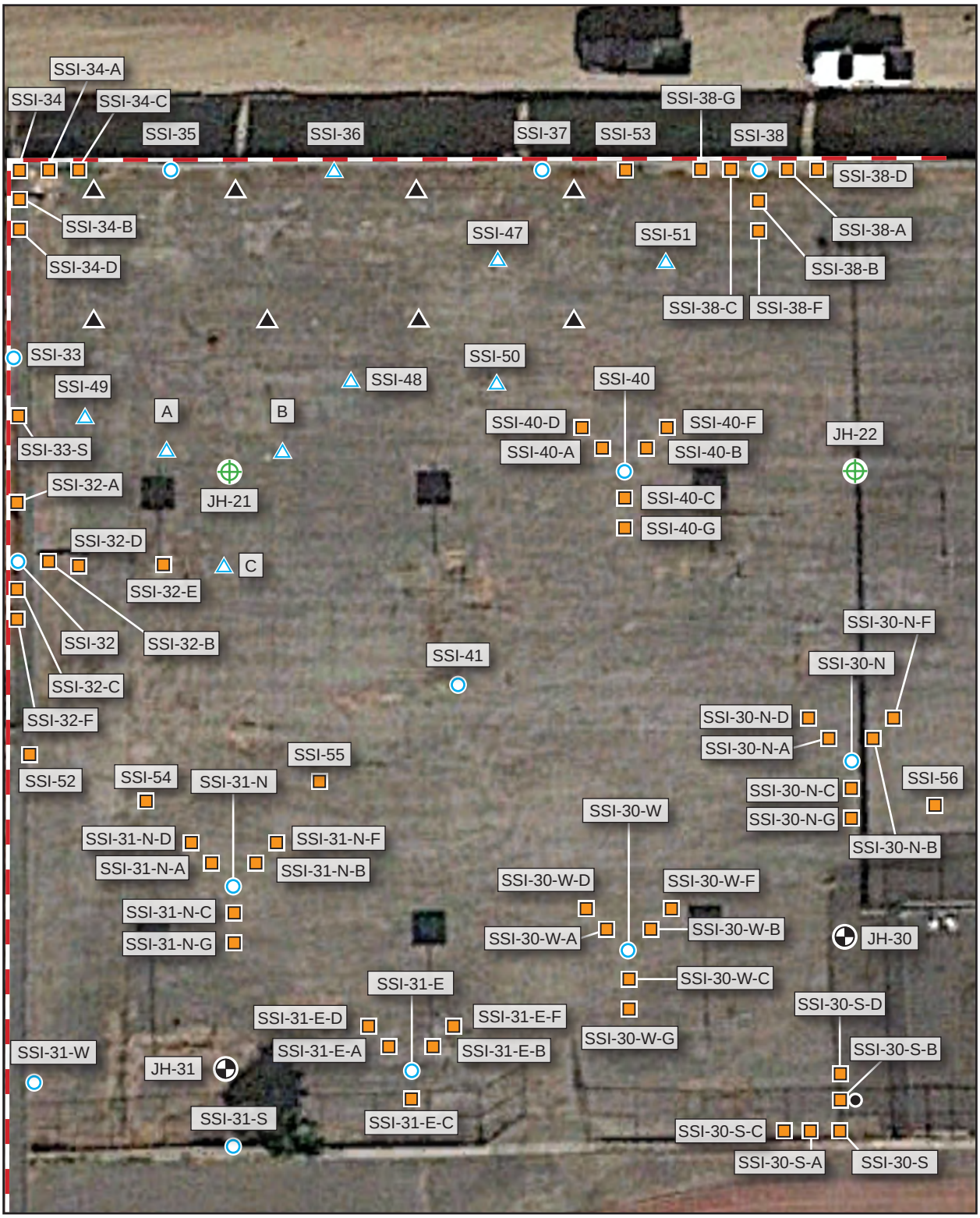
Project Boundary
School Boundary
Southern Boundary of Site
Clean Sample Location
Impacted Soil Sample Location
Vertical Delineation Sample
SSI Sample Location
Current TPH Sample Location
A-C SSI TPH Sample Location
Additional Samples

Source: ESRI, 2018

0 20
Scale (Feet)

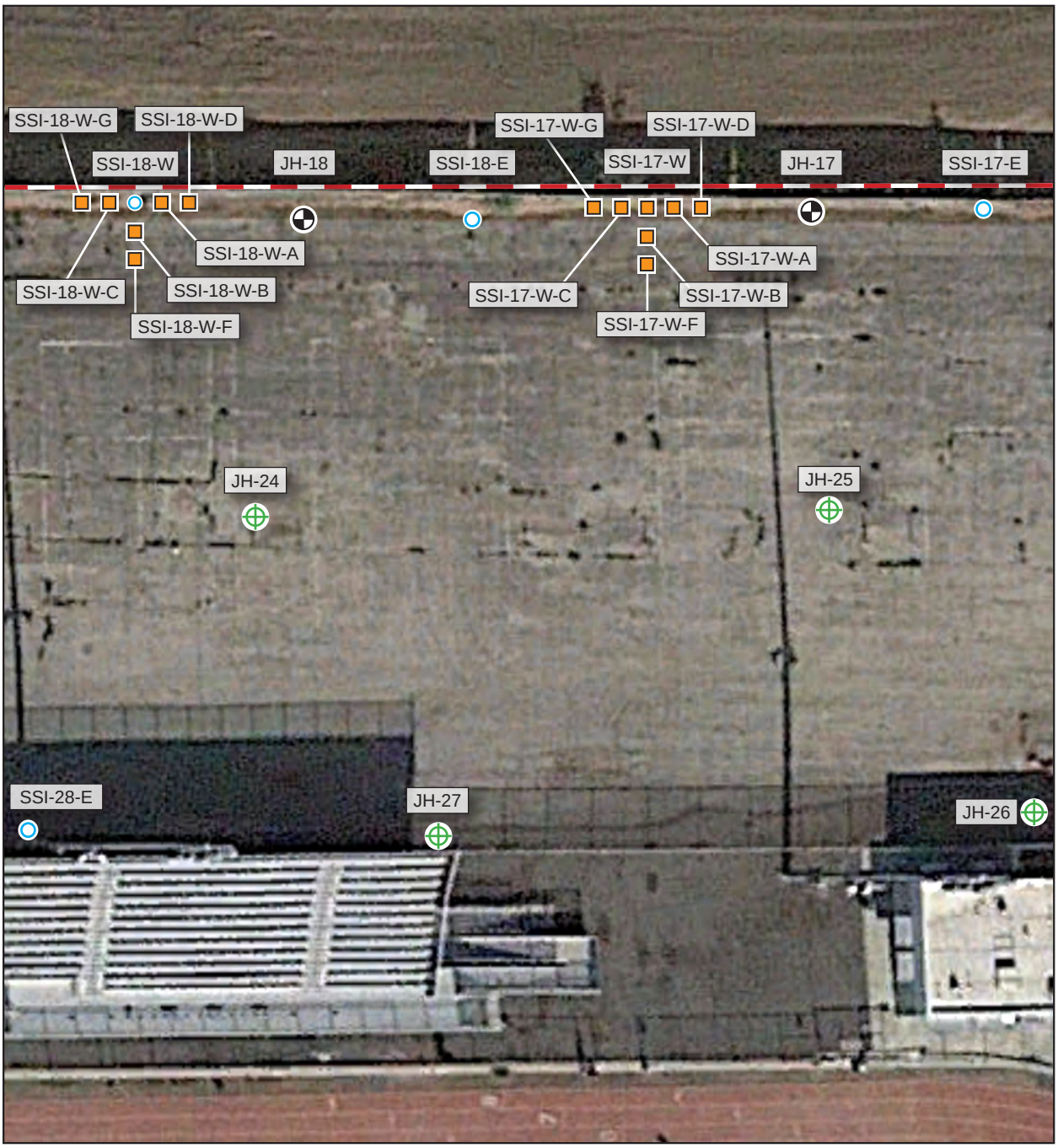
PlanWorks

Figure 3b - Lead and Arsenic Sample Locations - Area A



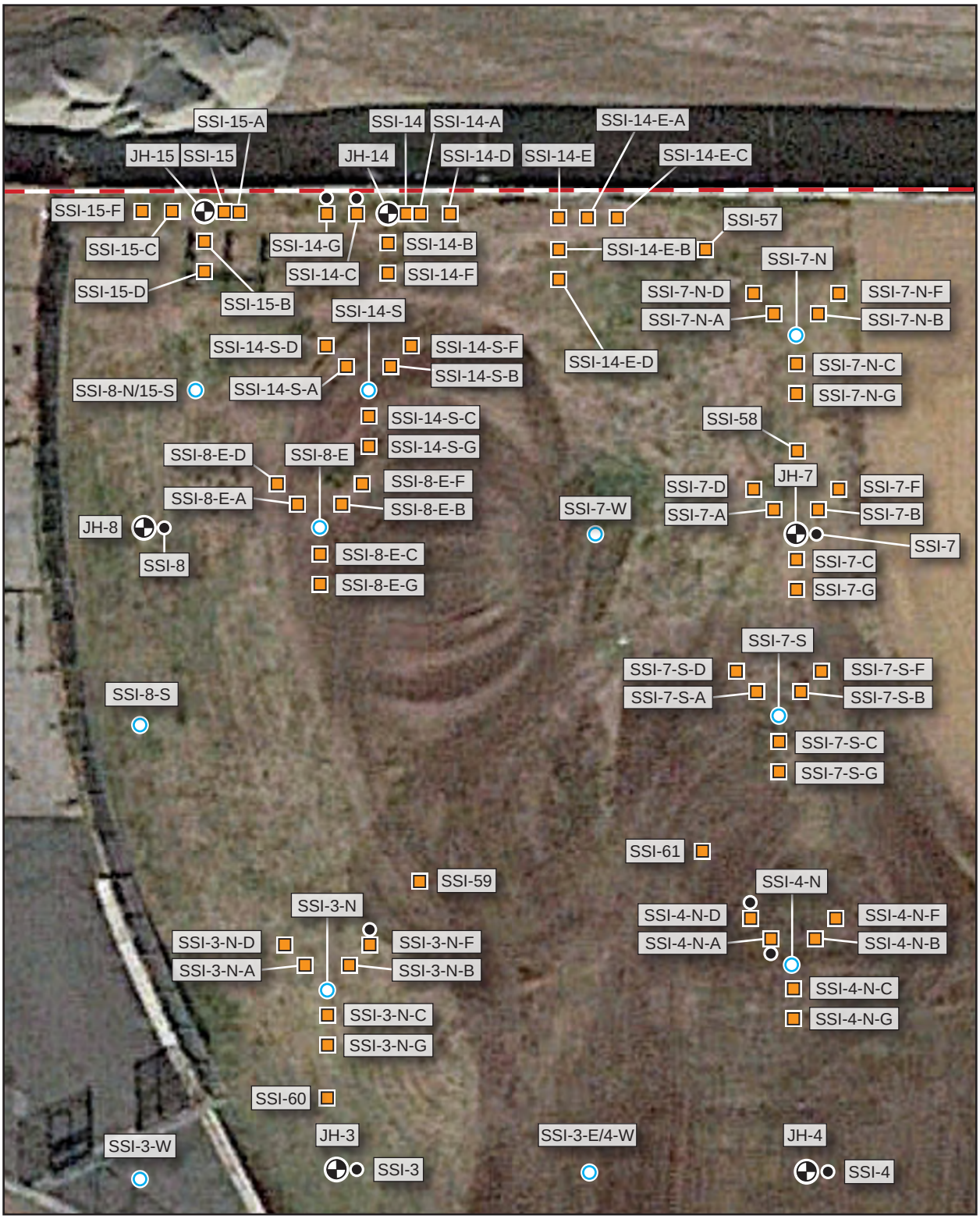
Source: ESRI, 2018

Figure 3c - Lead and Arsenic Sample Locations - Area B



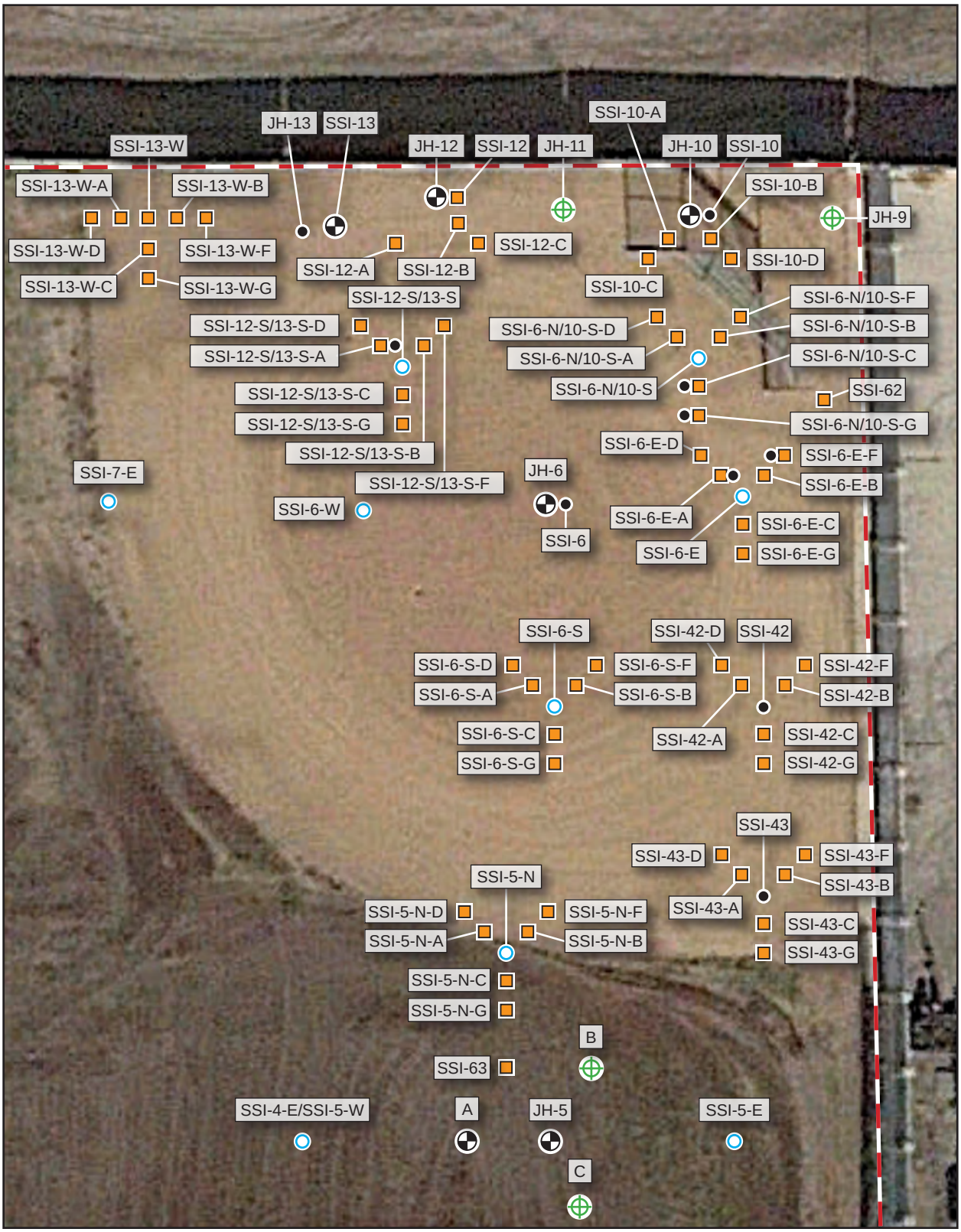
Source: ESRI, 2018

Figure 3d - Lead and Arsenic Sample Locations - Area C



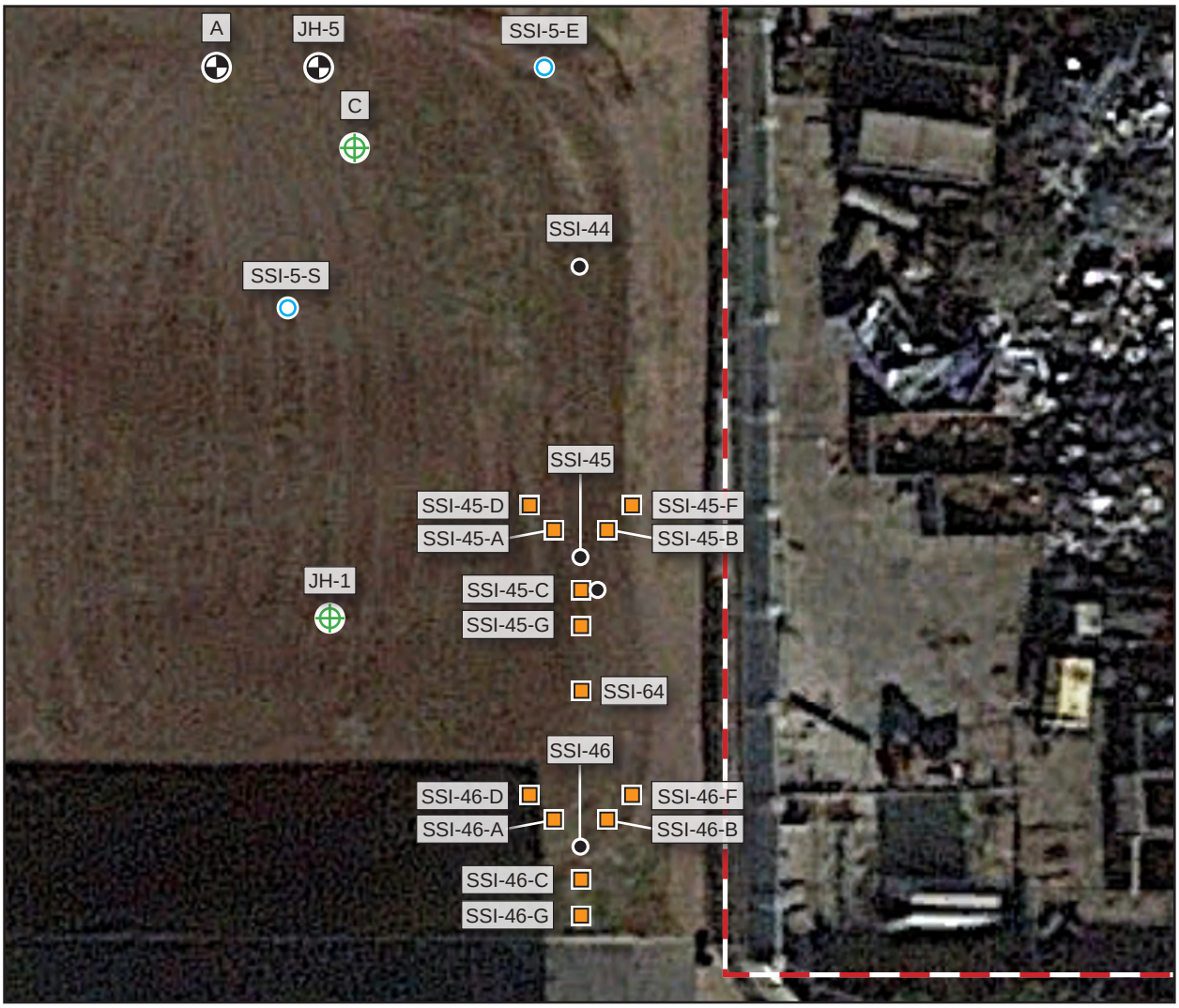
Source: ESRI, 2018

Figure 3e - Lead and Arsenic Sample Locations - Area D



Source: ESRI, 2018

Figure 3f - Lead and Arsenic Sample Locations - Area E

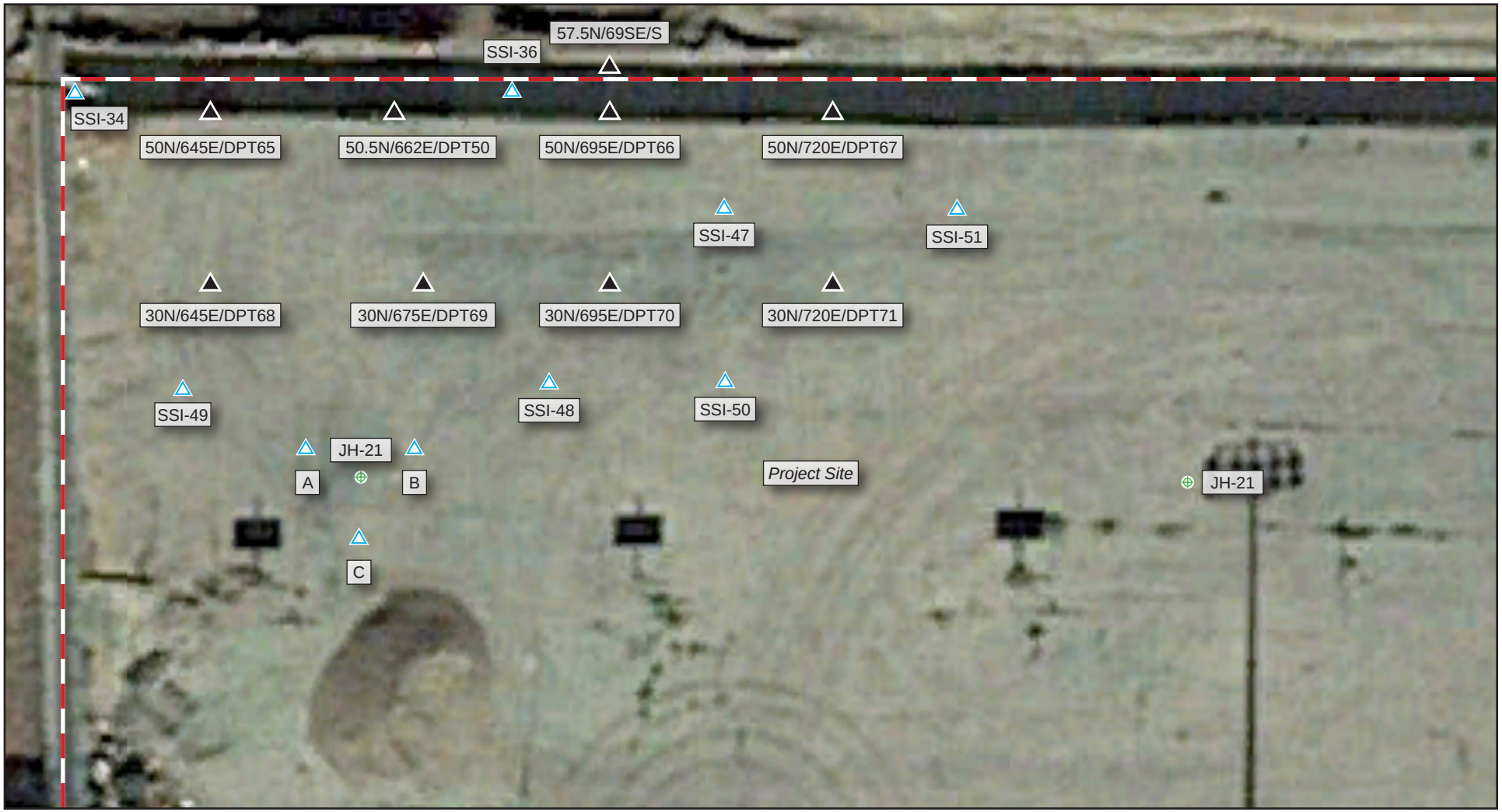


School Boundary
SSI Sample Location
Clean Sample Location
Impacted Soil Sample Location
Vertical Delineation Sample
Additional Samples

0 25
Scale (Feet)

Source: ESRI, 2018

Figure 4 - TPH Sample Locations

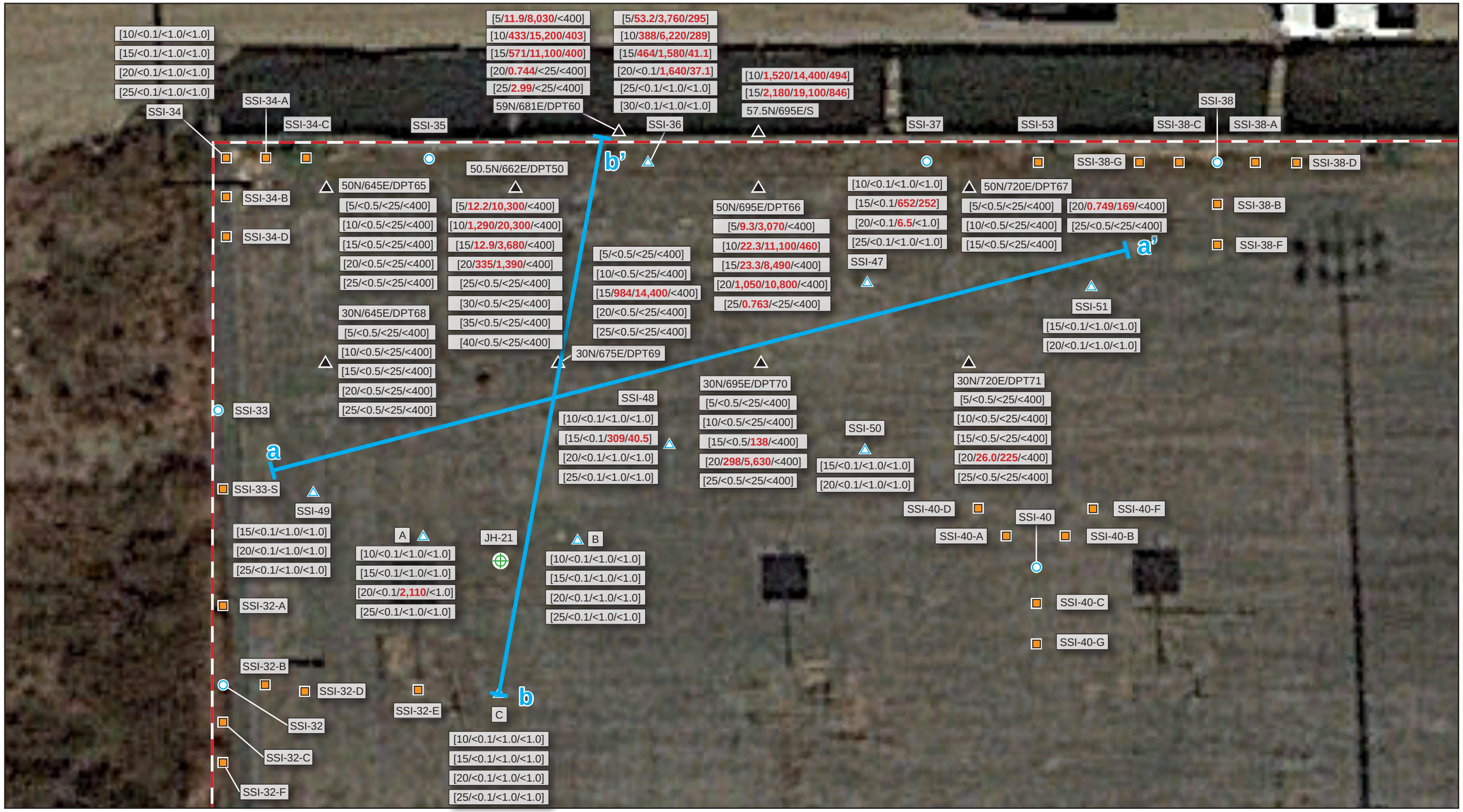


Source: Google Earth Pro, 2017

Figure 5 - TPH-d Concentrations in Soil - Area A

Source: Google Earth Pro, 2017

Figure 6a - Plan View



School Boundary
SSI Sample Location
Current TPH Sample Location
Additional Samples
Clean Sample Location
A-C SSI TPH Sample Location

Note: Depth in feet/TPH-g concentration in mg/kg/TPH-d concentration in mg/kg/TPH-o concentration in mg/kg

0 15
Scale (Feet)

Source: Google Earth Pro, 2018

Figure 6b - a-a' Cross-Section

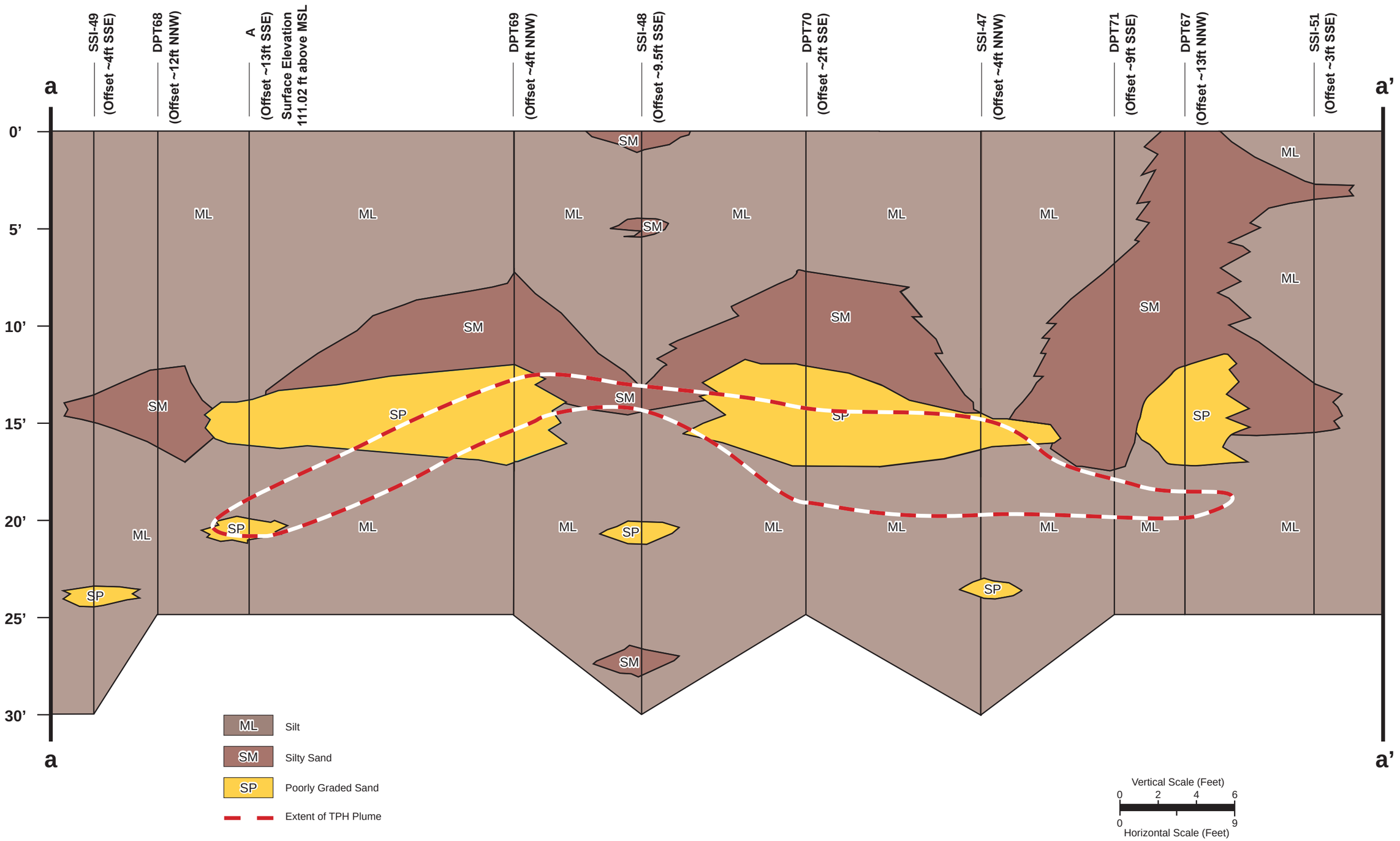


Figure 6c - b-b' Cross-Section

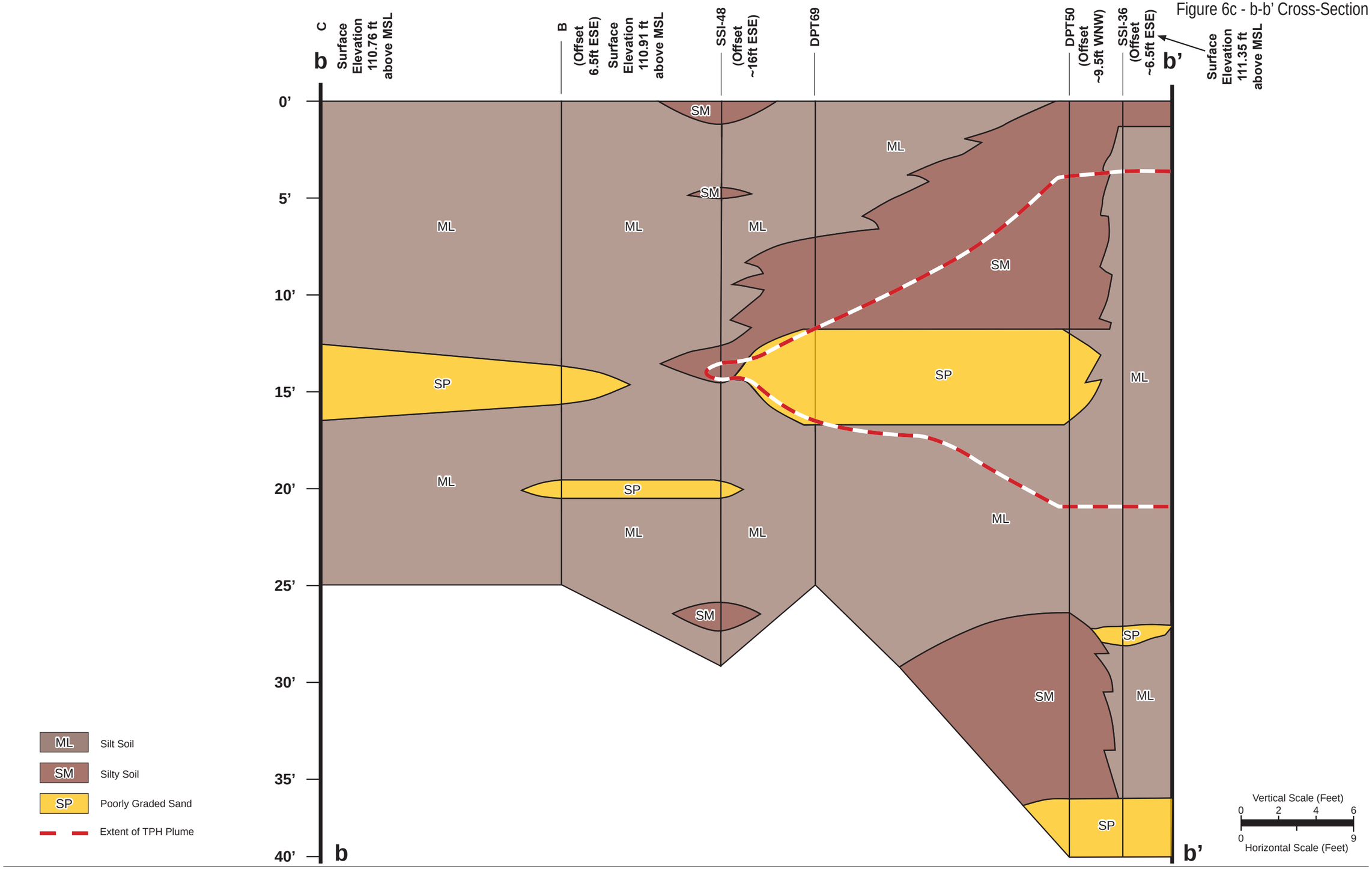


Figure 7 - Proposed Soil Excavations

Figure 8 - Proposed California Regulated Hazardous Soil Excavation Areas

Source: ESRI, 2018

PlanWorks

Appendix A. Photographic Essay

PLACEWORKS

SITE PHOTOGRAPHS

Client Name:	Los Angeles Unified School District
Site Location:	David Starr Jordan Senior High School
Project No.:	LASD1-32.7

Photo No: 1	**Date:** 6/11/2018
Description:	

View of hand augering along the northern perimeter of the site.

Photo No: 2	**Date:** 6/12/2018
Description:	

View of drilling at sample location A on the northwest portion of the site.

PLACEWORKS

SITE PHOTOGRAPHS

Client Name:	Los Angeles Unified School District
Site Location:	David Starr Jordan Senior High School
Project No.:	LASD1-32.7

Photo No:	**Date:**
3	6/13/2018

Description:

View of hand augering in the vicinity of SSI-5.

Photo No:	**Date:**
4	7/19/2018

Description:

View of drums staged within secured blacktop area of the site.

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SITE PHOTOGRAPHS

Client Name: Los Angeles Unified School District

Site Location: David Starr Jordan Senior High School

Project No.: LASD1-32.7

Photo No:	Date:
3	8/13/2018

Description:

View of blacktop portion of the site looking west. Most of the wall has been built on the northern perimeter.

Photo No:	Date:
4	6/13/2018

Description:

View of baseball field portion of the site looking northeast. A wall has since been built on the northern perimeter.

Appendix B. Public Work Notice

Los Angeles Unified School District

Office of Environmental Health and Safety

May 21, 2018

TO: Students and Staff Members of the
David Starr Jordan Senior High School

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

REGARDING: Supplemental Site Investigation
David Starr Jordan Senior High School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice of a Supplemental Site Investigation (SSI) that will be conducted within the boundaries of David Starr Jordan Senior High School, located at 2265 East 103rd Street, Los Angeles, California, 90002. The SSI will cover the northern portion of the campus.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the independent oversight of the LAUSD-OEHS, which is independent from the LAUSD Facilities Services Division (The Facilities Services Division is the responsible Branch for the development and construction of the project). The environmental investigation will consist of step-out sampling of soil surrounding locations where metals were previously detected above screening levels. Soil will be analyzed for potential residual arsenic, hydrocarbons and lead in soil. If necessary, a soil cleanup will be performed prior to construction activities to protect students, faculty, and staff.

Fieldwork is scheduled to begin in June 2018, and is expected to be completed by late July 2018. All fieldwork is scheduled to be conducted in areas where students do not have access or when students are away from school, between 7:00 am and 5:00 pm.

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

If you have any questions concerning the upcoming environmental investigation or other related activities for David Starr Jordan Senior High School, please contact Andrew Modugno, LAUSD Office of Environmental Health and Safety Site Assessment Project Manager, at (213) 241-3433 (email at andrew.modugno@lausd.net).

Distrito Escolar Unificado de Los Ángeles

Oficina de Salud y Seguridad Medioambiental

AUSTIN BEUTNER
Superintendente Escolar

DIANE PAPPAS
Jefe Ejecutivo, Oficina de Servicios Educacionales

CARLOS A. TORRES
Director en Funciones de Salud y Seguridad Ambiental

21 de mayo de 2018

PARA: Vecinos y Miembros de la Comunidad de
David Starr Jordan Senior High School

DE: Distrito Escolar Unificado de Los Ángeles
Oficina de Salud y Seguridad Medioambiental

ASUNTO: Investigación Suplementaria del Sitio
David Starr Jordan Senior High School, Los Angeles, California

La Oficina de Salud y Seguridad Medioambiental (OEHS, por sus siglas en inglés) del Distrito Escolar Unificado de Los Ángeles (LAUSD, por sus siglas en inglés) le notifica con anticipación de una Investigación Suplementaria del Sitio (SSI, por sus siglas en inglés) que se llevará a cabo para el proyecto de construcción en *David Starr Jordan Senior High School,* ubicada en el 2265 East 103rd Street, Los Angeles, California, 90002 ("Sitio"). El SSI se llevará a cabo en la porción norte del campo programado.

Un contratista licenciado, trabajando para LAUSD, llevará a cabo la investigación bajo la supervisión independiente del LAUSD-OEHS, que es independiente de la división de servicios de instalaciones de LAUSD (La división de servicios de instalaciones es la rama responsable para el desarrollo y la construcción del proyecto). La investigación ambiental consistirá en un muestreo detallado de los alrededores del suelo donde los metales se detectaron previamente por encima de los niveles de detección. El suelo será analizado para el potencial de arsénico residual, hidrocarburos, y pintura a base de plomo en el suelo. Si es necesario, se realizará una limpieza del suelo antes de las actividades de construcción para proteger a los estudiantes, facultad y personal.

El trabajo de campo está programado a comenzar en junio de 2018 y se espera que esté terminado a fines de julio de 2018. Este trabajo se llevará a cabo cuando los estudiantes no estén en la escuela, entre 7 a.m. y 5 p.m.

Resultados de la investigación serán presentados a LAUSD-OEHS en un reporte para su revisión. El reporte indicará si alguno de los compuestos analizados está presente en el suelo en concentraciones que requieran estudios más intensivos o alguna acción en respuesta antes de que la propiedad sea aprobada para actividades de construcción. Cuando OEHS termine la evaluación, OEHS hará una determinación con respecto al estudio preliminar.

Si tiene alguna pregunta sobre esta investigación u otras actividades relacionadas con este proyecto en David Starr Jordan Senior High School, puede comunicarse con Andrew Modugno, gerente de proyecto en LAUSD-OEHS, al (213) 241-4122 o por correo electrónico a andrew.modugno@lausd.net.

Los Angeles Unified School District

Office of Environmental Health and Safety

AUSTIN BEUTNER
Superintendent of Schools

DIANE. PAPPAS
Chief Executive Officer, Office of Educational Services

CARLOS A. TORRES
Acting Director, Environmental Health and Safety

May 21, 2018

TO: Students and Staff Members of the
Animo College Preparatory High School

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

REGARDING: Supplemental Site Investigation
David Starr Jordan Senior High School, Los Angeles, California

The Los Angeles Unified School District (LAUSD) - Office of Environmental Health and Safety (OEHS) would like to provide you with advance notice of a Supplemental Site Investigation (SSI) that will be conducted within the boundaries of David Starr Jordan Senior High School, located at 2265 East 103rd Street, Los Angeles, California, 90002. The SSI will cover the northern portion of the campus.

A licensed contractor, working on behalf of LAUSD, will perform the environmental investigation under the independent oversight of the LAUSD-OEHS, which is independent from the LAUSD Facilities Services Division (The Facilities Services Division is the responsible Branch for the development and construction of the project). The environmental investigation will consist of step-out sampling of soil surrounding locations where metals were previously detected above screening levels. Soil will be analyzed for potential residual arsenic, hydrocarbons and lead in soil. If necessary, a soil cleanup will be performed prior to construction activities to protect students, faculty, and staff.

Fieldwork is scheduled to begin in June 2018, and is expected to be completed by late July 2018. All fieldwork is scheduled to be conducted in areas where students do not have access or when students are away from school, between 7:00 am and 5:00 pm.

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

If you have any questions concerning the upcoming environmental investigation or other related activities for David Starr Jordan Senior High School, please contact Andrew Modugno, LAUSD Office of Environmental Health and Safety Site Assessment Project Manager, at (213) 241-3433 (email at andrew.modugno@lausd.net).

Distrito Escolar Unificado de Los Ángeles

Oficina de Salud y Seguridad Medioambiental

21 de mayo de 2018

PARA: Vecinos y Miembros de la Comunidad de
Animo College Preparatory High School

DE: Distrito Escolar Unificado de Los Ángeles
Oficina de Salud y Seguridad Medioambiental

ASUNTO: Investigación Suplementaria del Sitio
David Starr Jordan Senior High School, Los Angeles, California

La Oficina de Salud y Seguridad Medioambiental (OEHS, por sus siglas en inglés) del Distrito Escolar Unificado de Los Ángeles (LAUSD, por sus siglas en inglés) le notifica con anticipación de una Investigación Suplementaria del Sitio (SSI, por sus siglas en inglés) que se llevará a cabo para el proyecto de construcción en *David Starr Jordan Senior High School,* ubicada en el 2265 East 103rd Street, Los Angeles, California, 90002 ("Sitio"). El SSI se llevará a cabo en la porción norte del campo programado.

Un contratista licenciado, trabajando para LAUSD, llevará a cabo la investigación bajo la supervisión independiente del LAUSD-OEHS, que es independiente de la división de servicios de instalaciones de LAUSD (La división de servicios de instalaciones es la rama responsable para el desarrollo y la construcción del proyecto). La investigación ambiental consistirá en un muestreo detallado de los alrededores del suelo donde los metales se detectaron previamente por encima de los niveles de detección. El suelo será analizado para el potencial de arsénico residual, hidrocarburos, y pintura a base de plomo en el suelo. Si es necesario, se realizará una limpieza del suelo antes de las actividades de construcción para proteger a los estudiantes, facultad y personal.

El trabajo de campo está programado a comenzar en junio de 2018 y se espera que esté terminado a fines de julio de 2018. Este trabajo se llevará a cabo cuando los estudiantes no estén en la escuela, entre 7 a.m. y 5 p.m.

Resultados de la investigación serán presentados a LAUSD-OEHS en un reporte para su revisión. El reporte indicará si alguno de los compuestos analizados está presente en el suelo en concentraciones que requieran estudios más intensivos o alguna acción en respuesta antes de que la propiedad sea aprobada para actividades de construcción. Cuando OEHS termine la evaluación, OEHS hará una determinación con respecto al estudio preliminar.

Si tiene alguna pregunta sobre esta investigación u otras actividades relacionadas con este proyecto en David Starr Jordan Senior High School, puede comunicarse con Andrew Modugno, gerente de proyecto en LAUSD-OEHS, al (213) 241-4122 o por correo electrónico a andrew.modugno@lausd.net.

Appendix C. Health and Safety Plan

August 2017| LAUSD David Starr Jordan Senior High School

Health and Safety Plan Supplemental Site Investigation

Prepared for:

Los Angeles Unified School District
Contact: Patrick Schanen
Environmental Health Manager
333 South Beaudry Avenue, 21-224-05
Los Angeles, California 90017
213.241.3356

Project Number:
LASD1-32.6

Prepared by:

PlaceWorks
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PLACEWORKS

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List of Acronyms

°C	degrees Celsius
°F	degrees Fahrenheit
ACP	access control point
APR	air-purifying respirator
bgs	below ground surface
BTEX	Benzene, toluene, ethylbenzene and xylenes
CAL/OSHA	California Division of Occupational Safety and Health
CCR	California Code of Regulations
CFR	Code of Federal Regulations
CHSO	Corporate Health and Safety Officer
COPC	chemical of potential concern
CP	command post
CRZ	contaminant reduction zone
dBA	decibels – A scale
DTSC	California Department of Toxic Substances Control
ERP	Emergency Response/Contingency Plan
EZ	exclusion zone
FID	Flame Ionization Detector
GFCI	Ground fault circuit interrupter
HASP	Health and Safety Plan
HEPA	high efficiency particulate air
IDLH	immediately dangerous to life or health
IIPP	Illness and Injury Prevention Program
LAUSD	Los Angeles Unified School District
LOP	level of protection
m	meter
NIOSH	National Institute of Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PAH	Polycyclic aromatic hydrocarbons
PEL	permissible exposure limit
PHSO	Project Health and Safety Officer
PID	photoionization detector
PM	Project Manager
PPE	personal protective equipment
PVC	polyvinyl chloride
REC	recognized environmental condition
SCAQMD	South Coast Air Quality Management District

List of Acronyms

SHSO	Site Health and Safety Officer
SS	Site Supervisor
SSI	Supplemental Site Investigation
STEL	Short term exposure limit
SZ	support zone
TLV	threshold limit value
TPH	total petroleum hydrocarbons
TWA	time-weighted average
USA	Underground Service Alert
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1. Introduction

The health and safety of site workers and the public is a primary concern and goal during investigation and remedial activities where hazardous conditions may be present. Thus, a comprehensive, carefully managed, and thoroughly documented Health and Safety Plan (HASP) is crucial for successful project completion. The following plan describes specific responsibilities, training requirements, protective equipment, and site operating procedures to be utilized and implemented to protect on-site personnel from the potential hazards associated with the environmental investigation of a portion of the Los Angeles Unified School District's (LAUSD's) David Starr Jordan Senior High School ("Campus"), which is located at 2265 East 103rd Street, Los Angeles, California 90002 (Figure 1).

The procedures in this HASP have been developed based upon current knowledge regarding the specific chemical and physical hazards that are known or anticipated for the operations to be conducted at the site. The HASP has been written to comply with requirements of the California Department of Toxic Substances Control (DTSC) and United States Environmental Protection Agency (USEPA). Activities covered by the HASP must be conducted in complete compliance with this HASP and with all applicable Federal, State, and local health and safety regulations, including the California Occupational Safety and Health Administration (Cal/OSHA), Title 8 California Code of Regulations (CCR) §5192, and the Federal OSHA "Hazardous Waste Operations and Emergency Response" regulations in Title 29 of the Code of Federal Regulations (CFR) §1910.120 and "Construction Industry Standards" in 29 CFR §1926. On-site personnel who cannot, or will not, comply with these requirements will be excluded from project activities.

The Project Health and Safety Officer (PHSO) is responsible for maintaining compliance on-site with the HASP. The complete HASP will be reviewed and discussed with all site personnel before commencing on-site activities and health and safety tailgate meetings will be held prior to initiating work each day. This is necessary to ensure that personnel have sufficient awareness of the potential for hazardous conditions. In addition, the HASP provides field personnel advance preparation and knowledge of the proper procedures that should be followed if hazardous conditions are encountered. A copy of the HASP will be available on-site during all field activities. Field personnel will have access to the plan for reviewing pertinent safety guidelines as they apply to all aspects of site work. The HASP will be amended as required by field conditions, and all field personnel will be informed of any required amendments.

1. Introduction

Figure 1 Site Location

2. Site Background

The irregularly-shaped Campus encompasses approximately 19 acres and the Site is approximately 2.8 acres in the northwest portion of the Campus (Figure 2). The Site was deeded to LAUSD from the Housing Authority of the City of Los Angeles (HACLA) in 1974. The Jordan Downs Redevelopment Project (JDRP) contains land that was once part of former steel mill operations. The Housing Authority of the City of Los Angeles (HACLA) is the current owner of JDRP property. The Site is bounded by vacant property that is part of the JDRP to the north, an industrial facility to the east, the remainder of the David Starr Jordan Senior High School campus to the south, and Jordan Downs Public Housing apartments to the west (Figure 2). Former steel mill operations on the JDRP property left behind TPH and metal contamination that either migrated to the Site or were present prior to the deed transfer in 1974.

Prior to the 2016 replacement of the bleachers located on the north side of the football field, soil with elevated concentrations of arsenic and lead was identified and removed. Confirmation samples were collected and analyzed. The results of sidewall samples on the northern side of the visitors' bleacher indicated that soil with elevated concentrations of arsenic remained in place. However, soil within the bleacher project with elevated concentrations of lead and/or arsenic was replaced with clean fill.

Two additional limited field investigations identified arsenic, lead, and total petroleum hydrocarbons (TPH) in soil at concentrations of potential environmental concern at the Site. These investigations did not receive input from the DTSC concerning soil screening levels for the chemicals with elevated concentrations at the Site. In addition, they did not fully determine the lateral and vertical extent of soil with elevated concentrations.

The SSI Workplan that is the subject of this HASP guides the collection, analyses and reporting for soil samples collected from the Site to define the lateral and vertical extent of soil with elevated levels of arsenic, lead, and TPH.

Figure 2 Aerial Photograph

3. Project Safety Personnel

This HASP was prepared by PlaceWorks on behalf of the LAUSD. The company implementing the soil investigation is responsible for ensuring that their personnel, subcontractor personnel, and site visitors comply with the provisions of the HASP. The Corporate (or equivalent business entity) Health and Safety Officer, Project Manager, Project Health and Safety Officer, and Site Health and Safety Officer are responsible for ensuring that all field personnel receive a copy of this HASP and/or are briefed on its contents prior to conducting field work at the site. Each of these roles is discussed further below.

3.1 CORPORATE HEALTH AND SAFETY OFFICER (CHSO)

Designated Individual: To be determined

The CHSO is responsible for the following:

- Establishing corporate health and safety procedures
- Ensuring that the corporation is in compliance with Federal, State, and local guidelines regarding health and safety issues
- Confirming that employees have appropriate health and safety training and have taken a current respirator fit test, as appropriate
- Verifying that employees are current in the corporation's Medical Surveillance Program
- Maintaining records regarding employee safety training, respirator fit testing, and medical screening
- Reporting accidents to the necessary authorities.

Regarding individual projects, the CHSO has the same authority as the Site Health and Safety Officer.

3.2 PROJECT MANAGER (PM)

Designated Individual: To be determined

The PM is responsible for the overall performance and compliance with applicable regulations and procedural guidelines specified in this HASP. The PM also is responsible for implementing the provisions of this plan. Implementation includes review of field personnel compliance with the corporation's medical examination requirements, training of field personnel involved with the project, provision of appropriate safety equipment, and submittal of the required health and safety documents to the Site Health and Safety Officer. If the PM becomes aware of a deficiency in the implementation of the HASP, he/she will take

appropriate action by consulting with the CHSO and provide all affected personnel with appropriate written documentation. The authority of the PM is the same as the Site Health and Safety Officer.

3.3 SITE SUPERVISOR (SS)

Designated Individual: To be determined

The SS is responsible for coordinating and supervising technical field activities at the site. This individual will always be on-site during the field operations and will document work progress and be responsible for execution of the HASP. This individual is responsible for documenting field activities and sample collection, controlling access to the site, prohibiting individuals from continuing on-site work due to safety infractions, and implementing upgraded personal protective equipment using his/her judgment and/or in consultation with the SHSO. The SS also maintains a copy of the HASP at the site and any records required by the HASP.

3.4 SITE HEALTH AND SAFETY OFFICER (SHSO)

Designated Individual: To be determined

The SHSO is responsible for daily assessments of health and safety practices at the site. The SHSO will observe operating personnel and authorized visitors for indications of contaminant exposure, heat stress, or other hazards. The SHSO will also evaluate whether site conditions present hazards not previously predicted or expected, and will inspect personal protective equipment and verify its use. The SHSO is responsible for assisting the PM with on-site implementation of this HASP, including maintaining safety equipment supplies, performing air monitoring of the workers' breathing zones (if deemed necessary), and setting up work zone markers and signs.

The SHSO may also oversee real-time ambient air monitoring, meteorological monitoring, personnel monitoring and environmental sampling, maintenance of safety equipment and supplies, and decontamination operations and emergency response operations. Depending on the complexity of the project and the associated staffing requirements, the roles of SHSO and SS may be filled by the same person.

4. Scope of Work

The Supplemental Site Investigation program will involve the following investigation activities:

- Notification of Underground Service Alert (USA) a minimum of 48 hours prior initiation of intrusive field tasks.
- Clearance of all investigation locations using the services of a private underground utility search firm.
- Collection of shallow soil samples (60 inches below ground surface [bgs] maximum) at 71 locations, potentially more if with step-outs are deemed necessary.
- Collection of deeper soil samples (25 feet bgs maximum) at 5 locations, potentially more if step-outs are deemed necessary.
- Backfilling all borings, capping to match the adjacent surface, and removing any investigation-derived waste upon completion of sampling.

During performance of the various field activities, workers could potentially be exposed to soil impacted with hazardous constituents described in section 5.1, either by oral, dermal, or inhalation exposure routes. Additionally, the operation of construction equipment (e.g., trucks, drill rigs, etc.) and possible encounters with subsurface utilities present potential safety hazards to on-site workers and visitors.

5. Job Hazard Analysis

The proposed field work is highly unlikely to result in the exposure of site workers to chemicals of concern. Physical hazards may be present, however. Preparation of this HASP was based on the results of a limited soil screening investigation by Waterstone Environmental, Inc. 2016.

5.1 CHEMICAL HEALTH HAZARDS

Chemicals of potential concern (COPCs) have been identified at the site that may form toxicological exposure hazards and enter the body via inhalation, ingestion, or skin absorption exposure routes. Permissible exposure limits (PELs) are defined for most COPCs by the California Department of Occupational Safety and Health (CAL/OSHA) in the California Code of Regulations (CCR), Title 26, Section 5155, and other sections. PELs comprise airborne concentrations of substances to which workers can be repeatedly exposed, 8 hours per day for a 40-year working lifetime, without adverse effect. Variations in individual susceptibility may result in a small number of workers experiencing discomfort to some or all the chemicals at concentrations equal to or below the PEL. A smaller percentage of individuals may be affected more seriously from exposures at or below the PEL due to aggravation of a pre-existing condition, and may develop an occupational illness. PELs are based on research conducted by the National Institute for Occupational Safety and Health (NIOSH) and the American Conference of Governmental Industrial Hygienists (ACGIH) and draw from the best available information regarding industrial experience, animal studies, and other sources.

The time-weighted average (TWA) PEL represents a time-weighted exposure for an 8-hour workday, 40-hours per week. Most PELs are expressed as time-weighted averages. CAL/OSHA also has promulgated short-term exposure limits (STELs; usually 15 or 30 minutes) for certain substances. A few substances also have a ceiling concentration (the highest allowable concentration in the workplace) that cannot be exceeded, even instantaneously. Substances that can enter the body in a gaseous form through the skin are denoted by CAL/OSHA with an "S."

During the previous investigations, lead, arsenic, and petroleum hydrocarbons (TPH) were identified as COPCs. The regulatory exposure limits for these COPCs are as follows:

5. Job Hazard Analysis

Table 1 Regulatory Exposure Limits and Chemical Toxicity

Compound	***Exposure Limits***	
	Cal-OSHA 8-hr TWA/STEL*	NIOSH IDLH
Lead	0.05 mg/m^3	100 mg/m^3
Arsenic	0.01 mg/m^3	5 mg/m^3
Petroleum Hydrocarbons	Substance specific	Substance specific
Benzene	0.5 ppm/2.5 ppm	500 ppm

* ACGIH Threshold Limit Values (TLVs) are used when more conservative than PELs.
TWA = Time-weighted average (concentration should not be exceeded during an 8-hour workday during a 40-hour work-week)
STEL = Short-term exposure limit (15-minute TWA exposure that should not be exceeded at any time during a workday)
IDLH = Immediately dangerous to life or health concentration
NE = None established

Toxicity information for the various COPCs is provided below:

Lead – Lead is a heavy, ductile, soft gray solid. It is non-combustible with a melting point of 621°F and vapor pressure of 0.0 mm of mercury (Hg). Lead is incompatible with strong oxidizers, hydrogen peroxide, and acids. Acute lead poisoning usually manifests as gastroenteritis. Lead accumulates in the body; chronic lead poisoning is manifested by anemia, constipation, and abdominal pain. Accumulation in the peripheral nerves leads to wrist and ankle drop. Lead enters the body primarily by inhalation. In the respiratory tract, most lead compounds are absorbed rapidly and stored in nerve tissue so that poisoning can develop from long-term exposure to low doses. Poisoning can also develop slowly from ingestion via lead-contaminated food, drink or tobacco products. Prevention of lead poisoning is almost entirely a matter of good personal hygiene and housekeeping. Lead is known to the State of California to cause cancer and reproductive toxicity under the criteria of Proposition 65.

Arsenic -- Arsenic compounds can be corrosive to the skin. Brief contact has no effect, but prolonged contact results in localized skin problems. Some compounds can produce skin sensitization and contact dermatitis. Acute arsenical poisoning due to inhalation is very rare, but poisoning from chronic exposure does occur; initial symptoms include weakness, loss of appetite, nausea, vomiting, and diarrhea. The National Toxicology Program considers arsenic to be a substance that is known to be carcinogenic. Arsenic (inorganic) is known to the State of California to cause cancer under the criteria of Proposition 65.

Petroleum Hydrocarbons -- Petroleum hydrocarbons are a large chemical grouping that includes compounds such as gases, fuels, oils, greases, waxes, and tars. Most petroleum hydrocarbons present some fire risk, are variably toxic by ingestion and inhalation and cause local skin irritation. Because of the variety of substances that are in this category, an ionization potential or vapor pressure is not available.

Crude Oil -- Crude oil in its fresh state is a moderate fire hazard when exposed to heat, flame or oxidizers such as strong acids. This flammable attribute decreases as crude oil is released to the environment and exposed to weathering conditions. Crude oil is a composition of a variety of organic compounds which fall into three main groups:

- Aliphatic (fatty or waxy) hydrocarbons of moderate molecular weight

- Polycyclic aromatic hydrocarbons (PAHs), such as anthracene and chrysene
- Benzene, toluene, ethylbenzene and xylenes (BTEX).

PAH compounds form a relatively small portion of crude oil, but many members of the group have cancer producing properties. As PAHs have low volatility, inhalation exposure potential is quite low (may be carried on dust particles), so skin absorption is the most common route of exposure. Proper use of protective equipment will minimize the potential for exposure PAH. BTEX represents a potential inhalation hazard, but appropriate use of protective equipment will minimize this hazard. Many PAHs are known to the State of California to cause cancer under the criteria of Proposition 65.

Dust -- Dust particles not otherwise classified are from solid substances without specific occupational exposure standards. These include all inert or nuisance dusts, whether mineral or inorganic. Exposure routes are primarily inhalation. Common symptoms of exposure are irritation of the eyes, skin, throat and upper respiratory tract.

5.1.1 Required Safety Measures for Chemical Hazards

Protective clothing and adherence to safety procedures will minimize the opportunity for exposures during drilling, handling of soil and soil vapor samples, excavation, and disposal activities. To protect workers generally from eye contact, skin contact, and skin absorption, Personal Protective Equipment (PPE) will be available and will be used as outlined in Section 9.0. Inhalation of contaminated dusts and vapors is not expected to result in exposures greater than the respective TWAs, STELs, or IDLHs, because the stated activities will be conducted outside. Standard dust mitigation measures will further minimize risk through the inhalation pathway.

Should exposure to any of the above compounds occur, the following should be performed:

Table 2. Emergency Response Procedures

Exposure Pathway	***Response***
Eye Contact	Irrigate immediately
Skin Contact	Wash promptly with soap
Inhalation	Move to fresh air
Ingestion	Seek medical attention immediately

If breathing has stopped, mouth-to-mouth resuscitation should be provided and medical attention sought.

5.2 BIOLOGICAL HEALTH HAZARDS

Potential biological hazards include plants, ticks, snakes, and various stinging insects. Many common biological hazards can be addressed through awareness/avoidance or the use of over-the-counter medications. These medications will be kept on hand in an onsite first aid kit. The use of appropriate field clothing can help protect workers from biological hazards. Personnel who know they are sensitized to a biological hazard should inform the SHSO before field work commences.

5.3 PHYSICAL HAZARDS

Physical hazards that may be present during onsite field activities are listed below:

- Slip, Trip, or Fall - These types of hazards result from unleveled surfaces, slippery surfaces, and hard-to-see objects located across walking paths (e.g., rope, cords, etc.), and are responsible for over 60% of work-related injuries.

- Housekeeping and Sanitation - To permit safe and efficient work conditions, all work areas will be kept clean and free from debris. All hand tools will be kept in storage until they are needed for use. Trash containers will be leak proof, clean, and maintained in a sanitary condition. If vermin are encountered, an approved extermination method will be initiated. Potable water will be used for first aid, drinking, and personal hygiene purposes. All floors will be kept free from standing water. Disposable drinking cups will be provided, along with water coolers. Community drinking cups will not be permitted.

- Falling Objects - Hard hats, safety glasses, and steel-toed footwear will be required for personnel in all work areas.

- Traffic Safety - During normal work hours, there may be truck and heavy equipment traffic operating at the site or entering/exiting the site. Pedestrian traffic could be at risk in these circumstances.

5.3.1 Required Safety Measures for Physical Hazards

The types of safety measures to be taken to reduce physical hazards that may be present at the site are listed below:

Table 3. Safety Measures to Prevent Injuries

Potential Hazard	Required Safety Measure
Head Injury	Hard hats will be worn.
Eye Injury	Safety glasses will be worn around moving machinery or impact-related operations.
Foot Injury	Safety shoes with steel reinforced toes will be worn.
Other Injury	Guards are required on all moving parts, belts, and pulleys.
Fire	Fire or tobacco smoking will be strictly prohibited within the work area. Fire extinguishers will be readily available.
Inhalation	Dust mitigation measures may need to be implemented, based on field observations and meteorological conditions. Appropriate protective equipment will be used, as directed by the SS/SHSO.
Noise	Hearing protection will be used whenever loud machinery is in use
Dermal exposure	Contact of sufficient duration to cause significant absorption of potential toxic components is highly unlikely. Repeated daily or prolonged contact with soil or water, however, may over a prolonged period lead to irritation and dermatitis. For this reason, direct skin contact with soil or water will be avoided by wearing protective gloves. However, if skin contact does occur, the exposed areas may be washed with soap and water and rinsed thoroughly.
Equipment Failure	If monitoring instruments or any safety equipment fails, work will be suspended until repairs or replacements can be found. In case of working equipment failure, the SS/SHSO will ensure that

Table 3. Safety Measures to Prevent Injuries

Potential Hazard	Required Safety Measure
	no hazardous conditions prevail before authorizing further work.
Slip, Trip, and Fall	Appropriate warning signs will be posted, wherever this danger exists.
Underground Utility	Location of all underground utility lines will be determined before commencing work. In case of breach of a line, electricity and gas supply will be shut off.
Traffic Hazards	When working in an area subject to vehicle traffic, the work area should be clearly delineated to control vehicular access. When working in public right-of-ways, lanes closures must be conducted in compliance with the guidelines set forth in the State of California Manual of Traffic Controls (Watch handbook) and any additional local ordinances or guidelines. Personnel exposed to vehicular traffic will use high-visibility clothing in accordance with the requirements of 8 CCR 1598(c).

5.3.2 Heavy Equipment and Traffic

The use of heavy equipment on site presents a potential physical hazard to personnel. Site investigation and remediation activities may include the use of front-end loaders, backhoes, graders, excavators, dump trucks, and drilling rigs. Unauthorized persons will be excluded from areas where heavy equipment is operating by means of perimeter fencing, caution tape, or other means of demarcation.

While approaching heavy equipment during operation, personnel will observe the following protocols:

- Make eye contact with the operator.
- Signal the operator to cease heavy equipment activity.
- Approach the equipment and inform the operator of intentions.

Only qualified personnel will operate heavy equipment. Those crew members directly involved with spotting for the operator will be the only personnel allowed within the operating radius of the heavy equipment. All other personnel will remain a safe distance away from these operations.

Only equipment that is in sound working order will be used. To maintain this policy, all equipment brought onto the project site will be inspected for structural integrity, smooth operational performance, and proper functioning of all critical safety devices in accordance with the manufacturer's specifications. A qualified equipment operator will perform this inspection. Equipment not conforming to the operational and safety requirements during this inspection will not be put into service until all necessary repairs are made to the satisfaction of the inspection group. Only qualified operators with the equipment will be permitted to operate equipment.

5.3.3 Heat Stress

The Contractor's Safe Work Practices, Prevention of Heat Stress and Stroke, is provided in Appendix A. Heat stress and associated complications can be the most prevalent health concerns on sites, especially when PPE

is used. Heat stress problems for workers can occur more often than chemical-related hazards and, therefore, must be regarded with caution.

If precautions are not taken, workers wearing PPE may be at increased risk of heat stress. All workers will be encouraged to drink increased amounts of fluids (which will be readily available at the site always, at an appropriate location). All personnel will monitor each other to determine if any signs of heat stress become apparent. A work/rest regimen will be instituted to reduce heat-related exhaustion.

The SS/SHSO will be trained to recognize the symptoms of heat rash, heat cramps, heat exhaustion, and heat stroke. Using the following procedures will help reduce the potential for workers to experience symptoms of heat stress:

- Provide plenty of liquids to replace loss of body fluids, including commercial electrolyte-replacement drinks.

- The SHSO will establish a work/rest schedule. The SHSO will consider environmental conditions, whether workers are acclimatized, level of chemical protective clothing being used, and the activity level. The most recent version of the American Conference of Governmental Industrial Hygienists "Threshold Limit Values for Chemical Substances Physical Agents" shall be relied upon for establishing the schedule. The work/rest regimen shown on the following page will be followed for field workers performing light/moderate work at PPE level C or level B outdoors.

Table 4. Work/Rest Regimen for Various Ambient Temperatures

Work/Rest Regimen	Temperature	
	°F	°C
Continuous work	<79	<27
75% work/25% rest each hour	79	27
50% work/50% rest each hour	84	30
25% work/75% rest each hour	>88	>32

- To evaluate the adequacy of this work/rest schedule, heart rate (pulse) determination will be made involving each worker leaving the work area and again approximately one minute after exit. If the exit pulse exceeds 0.7 times the difference between 220 and the age of the individual, or if the one-minute pulse exceeds 110 beats per minute, then the work schedule will be reduced by 10 minutes and, therefore, the rest period will increase by the same 10 minutes each hour.

Heat stress monitoring will be performed at the discretion of the SHSO, based on site conditions. One or more of the following are potential indicators of heat stress and an individual should stop work if any of the following occur: sustained (several minutes) heart rate is in excess of 180 beats per minute (bpm) minus the individual's age in years (180 - age) for individuals with assessed normal cardiac performance; body core temperature is greater than 38.5^{0}C (101.3^{0}F) for medically selected and acclimatized personnel, or greater than 38^{0}C (100.4^{0}F) for others; or the recovery heart rate one minute after peak work effort is greater than 120 bpm.

5.3.4 Noise

Noise levels in excess of 85 dBA (decibels on the A-weighted scale) for extended periods of time can result in temporary or even permanent hearing loss. The PEL for noise is 90 dBA, while the 8-hour TWA sound level of 85 dBA is the OSHA Action Level. Historical noise monitoring data collected during work using heavy equipment have shown noise levels can exceed these regulatory limits. As a result, hearing protection devices will be used, as appropriate, for field activities conducted at the site.

At the discretion of the SHSO, noise monitoring may need to be performed for job tasks that utilize heavy machinery or potentially loud equipment. If noise in the work area exceeds 85 dBA (peak measurement), as measured using a sound level meter, ear plugs will be required for all personnel in the work zone and personnel noise dosimetry will be conducted. If noise exceeds 80 dBA over a 2-hour time-weighted average using a noise dosimeter, earplugs will be required for the remainder of the job tasks. If noise levels exceed 90 dBA over a 2-hour time-weighted average, ear muffs will also be required for all personnel in the work zone. The need for engineering controls for noise reduction will also be assessed.

5.3.5 Electrical Hazards

Overhead power lines, downed electrical wires, and buried cables all pose a danger of shock or electrocution if workers contact, sever, and/or come near them during site operations. To prevent accidents caused by electric shock, site personnel will inspect all electrical connections (if required) daily. They will shut down and lock out any equipment that is found to have frayed wiring or loose connections until a qualified electrician can be contacted and repairs effected. Electrical equipment will be de-energized and tested by an electrician before any electrical work is done. All equipment will be properly grounded prior to and during all work. Underground Service Alert (USA) will be notified at least two (2) working days prior to site activities in any area.

Ground fault circuit interrupters (GFCIs) will be installed whenever possible in each circuit between the power source and tool, unless the presence of a potentially explosive atmosphere precludes this procedure. If generators are used to supply power, these generators will be equipped with GFCIs.

In addition, all drilling activities will be conducted in accordance with Cal OSHA provisions for preventing accidents due to proximity to overhead high-voltage power lines. Electrical Safety Order 2946 (California Code of Regulations Title 8) outlines the requirements for prevention of accidents due to proximity to overhead lines. Personnel must be guarded against the danger of accidental contact with overhead lines. With certain exceptions, work done over live (power on) overhead lines is against the law.

5.3.6 Excavations

Deep excavations are not part of the project work scope. As such, the following protocols and procedures are presented as an adjunct to this HASP. Subsurface installations will be identified and marked prior to any excavation. Owners and operators of high priority subsurface installations (e.g. high-pressure pipelines, natural gas/petroleum pipelines, electrical lines greater than 60,000 volts, etc.) that are located within 10 feet of excavations must be met with prior to beginning excavations.

5. Job Hazard Analysis

Excavations equal to or greater than 5 feet bgs will be required to access and remove certain impacted soils. In accordance with OSHA regulations, before personnel are allowed to enter excavations equal to or greater than 5 feet bgs, the sidewalls will be rendered safe by sloping them to a minimum horizontal to vertical ratio approved by the geotechnical engineer of record, or by implementation of protection systems (e.g., temporary shoring, etc.) designed by a licensed engineer.

Personnel must obtain prior approval before entering the excavation. Daily inspections of excavation, the adjacent areas, and protection systems will be made by a competent person to determine if a situation exists that could result in possible cave-ins, failure of protective systems, hazardous atmospheres, or other hazardous conditions. An inspection will be conducted by the competent person prior to the start of work and as needed throughout the shift. Inspections will also be made after every rainstorm to ensure that no water accumulation has occurred. Employees shall not work in excavations where water has accumulated, unless adequate precautions are taken to protect employees against the hazards posed by water accumulation.

The precautions necessary to protect employees adequately vary with each situation, but could include special support or shield systems to protect from cave-ins, water removal to control the level of accumulating water, or use of a safety harness and lifeline. Additional information for working within and around excavations is contained within the Contractor's "Safe Work Practices for Excavation Activities" provided in Appendix B.

6. General Health and Safety Requirements

Throughout the project, records documenting the site safety program will be maintained. These records will include information about personnel medical clearances and training, safety briefings, and incidents, if any. The records will take the form of a dedicated health and safety logbook and various health and safety forms.

Records will be kept consistent with all applicable CAL/OSHA regulations. Where applicable, the types of records are maintained by PlaceWorks:

- Hazard communication training
- Hazardous waste site training
- Respiratory protection training
- Respirator assignment
- Medical surveillance
- Safety inspection reports
- Personal monitoring records
- Accident logs
- CAL/OSHA logs (200 form or equivalent).

The PM or SS will maintain the following records at the site, some of which will be written entries into a bound project notebook:

- Persons on-site, their affiliation, and purpose
- Sampling activities
- Chain-of-custody forms
- Work progress
- Tailgate safety meeting forms
- Worker illness and (or) injury reports

- HASP (including revisions)
- Daily work activities and conditions
- Accident log.

Subcontractors shall maintain similar employee records.

6.1 MEDICAL CLEARANCE AND MONITORING

All personnel must obtain health and safety clearances before beginning work at the site. Employees must be active participants in a Medical Surveillance and Training Program. Project personnel who may need to wear respirators shall provide evidence that they have been cleared by a physician to wear respirators.

6.2 SAFETY MEETINGS

Before site work commences, a safety orientation meeting will be held. This meeting will address site hazards and provisions for minimizing these hazards. The meeting will also be used to plan various stages of the work and to distribute HASP-related information to other site workers. After the meeting, a Compliance Agreement will be signed by the SHSO and supervisors representing the other project contractors or subcontractors at the site. A copy of the Compliance Agreement form is provided in Appendix C.

Tailgate safety meetings will be conducted daily, prior to the commencement of work activities. These meetings will be documented using a standard Safety Meeting Form, a copy of which is provided Appendix D. Topics to be addressed during daily safety meetings will include: previous work activities, safety concerns that arose during these activities, anticipated changes in the work scope, new employee introductions (if necessary), modifications to the HASP, evacuation routes, and changes in PPE levels.

6.3 TRAINING

Field work will not commence occur until all personnel have been trained to the level required by their job function and responsibility. The types of training that may be required include: orientation for new employees, basic training for first-time hazardous waste site workers, hazardous waste site supervisor training, advanced training, site-specific training, first aid, and refresher training.

Project personnel are required to have completed 40 hours of OSHA HAZWOPER training. In addition, the SS and SHSO must have completed Competent Person Training pursuant to Subpart P, 29 CFR 126.650, Trenching and Excavation.

6.4 DISTRIBUTION OF THE HASP

A copy of this HASP will be made available on request to each employee and to their on-site subcontractors. These personnel must acknowledge their review of the HASP and agree to comply with its provisions by signing the Acknowledgement Statement provided in Appendix C.

6.5 INCIDENT REPORTING

Injuries, exposure, illnesses, safety infractions, and other incidences must be reported to the SHSO within 24 hours of occurrence.

An incident is any event listed below:

- Illness resulting from chemical exposure or unknown causes
- Physical injury, including those that do not require medical attention
- Fire, explosions, and flashes resulting from activities performed by Contractor personnel and their subcontractors
- Site damage
- Vehicular accidents occurring on-site or while traveling to and from the site
- Infractions of safety rules and requirements
- Unexpected chemical exposure (indicated by irritation of eyes, nose, throat, or skin).

Onsite accidents involving employees or their subcontractors shall also be reported. All serious onsite injuries will be reported as soon as possible to the CHSO.

6.6 SAFETY COMPLETION REPORT

Once the field work is complete, a Safety Completion Report will be submitted to the CHSO within five working days. The report should include a critical evaluation of the HASP, a list of personnel that worked at the site, exposure monitoring data, a summary of incidences and action(s) taken, and recommendations for improving health and safety at comparable sites. A copy of the Safety Completion Report form is provided in Appendix C.

6.7 POSTING REQUIREMENTS

The following information will be posted or readily available on site:

- Emergency phone numbers
- Directions to the nearest hospital
- A copy of this HASP.

6.8 AUDITING

The success of a health and safety program will be evaluated through statistical reporting (such as the OSHA 300 logs and insurance experience) and/or formal audits. Audits will be conducted by the CHSO. Audits may be announced or unannounced, and a formal health and safety audit report will be provided to the PM. After the audit is finished, the auditor shall discuss any health and safety concerns with the PM and SHSO. Inspections will be made to identify and evaluate hazards when:

- The program is first established
- New substances, processes, procedures, or equipment are introduced to the workplace that represent a new occupational safety and health hazard
- Whenever the Contractor is made aware of a new or previously unrecognized hazard.

6.9 INJURY AND ILLNESS PREVENTION PROGRAM (IIPP)

This entire document, including the appendices, serves as an IIPP. The persons with authority and responsibility for implementing the program are identified in Section 3.

The system for ensuring that employees comply with safe and healthy work practices includes:

- Generation of a HASP
- Auditing by the CHSO
- Daily field health and safety oversight by the SHSO
- Daily tailgate safety review meetings
- Review of employee and subcontractor training.

Employees and subcontractors who are not prepared to abide by the provisions of this HASP will not be allowed on-site. Field personnel who are working for the Contractor must sign the HASP Compliance Agreement provided in Appendix C. Individuals observed violating requirements of this document will be given a formal "Notice of Violation." Should violations continue, or fail to be corrected, the individual(s) will be removed from the site.

The tailgate safety meetings, training sessions, and postings at the site are the three major sources of communication between employees. Internal communication system includes:

- A reporting matrix between the SHSO and CHSO
- The communications associated with the auditing program.

The auditing program also complies with Title 8, CCR Section 3203(a)(4), which states that an employer must:

"Include procedures for identifying and evaluating work place hazards including scheduled periodic inspections to identify unsafe conditions and work practices."

Incident/accident reporting system is the procedure for investigating injury or occupational illness, in addition to a medical surveillance program. This document addresses the applicable sections of the Title 8 CCR, Sections 1509 (Construction) and 3203 (General) regarding the IIPP.

6.10 FIT FOR DUTY

It is the responsibility of the Contractor, subcontractors, clients, or visitors to ensure that they are fit to perform their required duties at the site. The SHSO has the responsibility to ensure that everyone signing the tailgate meeting is fit for duty. Activities that may affect the fitness of individuals at the site include those listed on the following page.

- Consumption of alcohol
- Use of illegal or controlled substances
- Certain prescription or over-the-counter medicines
- Altered mental state
- Personal injury
- Fatigue.

Any individual found unfit for duty will be precluded from entering the site until they are fit to do so. In such an instance, the SHSO will complete an incident report and notify the PM. Subcontractors who have personnel unfit for duty will be notified and provided with the opportunity to replace the impaired individuals at the site.

7. Exposure Monitoring Plan

The proposed work for this project will not involve deep excavations or trenching. The proposed activities are not expected to encounter volatile organic compounds (VOCs) that would trigger monitoring and mitigation requirements under South Coast Air Quality Management District (SCAQMD) Rule 1166, nor are the activities likely to generate fugitive dust that would require monitoring and mitigation.

8. Site Control

The goal of site control is to protect workers and the public from physical hazards at the site and to prevent vandalism. To achieve these goals, and to control the movement of personnel and equipment, a site control program will be established. The basic components of the program will include site work zones, use of the buddy system, site security, safe work practices, sanitation, site communication, and visitor clearances. These components are described in the following sections.

8.1 SITE WORK ZONES

Access to hazardous and potentially hazardous areas must be controlled to reduce the probability of physical injury to field personnel, visitors, and the public. A hazardous or potentially hazardous area includes any area where field personnel are required to wear PPE or deep excavation operations are being performed. The establishment of work zones will help ensure that: personnel are properly protected against hazards present where they are working, work activities and contamination are confined to appropriate areas, and personnel are located and evacuated in an emergency. Depending on the project and the layout of the site, as many as three work zones may need to be established to support the field program: the exclusion zone (EZ), the contaminant reduction zone (CRZ), and the support zone (SZ). The area work zones will be identified with barrier tape, temporary fencing, delineators, or other demarcation methods. At many sites, the existing infrastructure, such as building facades, walls or fences, hedgerows, etc. can be used to delimit work zones.

The locations of the work zones will be established in the field. When possible, the SZ will be upwind from the active work areas. All persons entering the subject site will identify themselves to the PM, SS, or SHSO.

8.1.1 Exclusion Zone

The EZ is defined as the area where field activities could present a potential hazard to personnel. The EZ initially will be established for each task based on the nature and location of the hazards within the area. The zone boundaries may be altered by the SHSO based on new data or observations. The outer boundary of the EZ will be delineated with barrier tape, temporary fencing, delineators, or other demarcation methods. Access control point(s) (ACPs) will be established at the periphery of the EZ to control the flow of personnel and equipment into and out of the EZ. Access will be restricted to personnel with appropriate training and documentation, and wearing appropriate PPE, as defined in this HASP. Eating, drinking, and smoking are prohibited in the EZ.

8.1.2 Contaminant Reduction Zone

The CRZ is the area where personnel conduct personal and equipment decontamination. Its location will be established based on site access, and other considerations. The CRZ represents a transition area between contaminated areas and clean areas, and provides an area to prevent or reduce the transfer of contaminants

that may be present on personnel or equipment returning from the EZ. Emergency and first aid equipment, equipment resupply (e.g., gloves, etc.), and temporary rest facilities (e.g., chairs, shade, liquids, etc.) will be available in or close to the CRZ. At many sites, the levels of COPCs are sufficiently low that hazards associated with contaminant transfer from the EZ are extremely low. In such instances, a "step-off" CRZ may be appropriate, where personnel can directly transition from the EZ to the SZ with minimal decontamination.

Where a larger CRZ is appropriate, access into and out of the CRZ from the EZ is controlled through ACPs. The boundary between the CRZ and the SZ, the Contamination Control Line, separates the low contamination area from the clean SZ. Entry into the CRZ from the SZ will be controlled through ACPs. Activities to be conducted in the CRZ will require PPE as defined in the decontamination procedures. Exit from the CRZ requires the removal of any suspected or known contaminated PPE and compliance with decontamination procedures. A primary and secondary CRZ will be established. Exit through the secondary CRZ will occur only during emergencies.

8.1.3 Support Zone

The SZ is an area where the chance of encountering hazardous conditions is minimal. It contains administrative and other support functions, including the Command Post (CP). CP personnel are responsible for supervision of all field operations and field teams. CP personnel are also responsible for maintaining internal and external communication and alerting the proper authorities in the event of an emergency. Telephone communication will be maintained using cellular phones at the site. Emergency telephone numbers and hospital route maps will be kept here. Health and safety records and up-to-date copies of the HASP will be kept in the SZ. Break/ conference, lunch, storage/supply, security, sanitation, and emergency medical facilities will be established in this area. PPE is not required in this area and eating, drinking, and smoking are permitted.

8.2 BUDDY SYSTEM

The "Buddy System" will be used to:

- Control work inside the EZ
- Warn co-workers of an impending hazard
- Periodically check the integrity of partner's PPE
- Provide aid in the case of accidents or injuries, and make appropriate notifications.

Prior to field work, "buddies" will establish a time to communicate if either one is out of sight from the other person for an extended period. A way to communicate should also be agreed on prior to entry into the work area.

8.3 SITE SECURITY

Site security is necessary to:

- Prevent the exposure of unauthorized, unprotected people to site hazards;
- Prevent theft; and
- Avoid interference with safe working procedures.

Personnel and vehicle entry will be restricted in established work zones. The responsibilities of personnel include:

- Limiting access to authorized personnel only. Requiring identification of all personnel requesting access to the work zones (i.e., SZ, CRZ, or EZ)
- Ensuring that all visitors to the site who will not be involved in specific work operations have a valid purpose for entering the site and approval for access from the SHSO. The SHSO will ensure that visitors entering work zones have the appropriate training, and have read and signed the HASP
- Requiring all personnel accessing the work zones to sign in and out
- Excluding unauthorized personnel from the site. Advising unauthorized personnel attempting to gain access to the site that they are trespassing and will be prosecuted for unauthorized entrance to the site. Security personnel will make all reasonable efforts to record a description of the trespasser and their vehicle
- In the event of a fire, explosion, release of airborne contaminants, flood, or other emergency that requires the evacuation of personnel, security personnel will limit site access to only those personnel authorized by the site emergency response coordinator. The SHSO will initiate a head count to ensure all personnel are accounted for.
- Documenting any security problems in the bound project notebook.

8.4 SAFE WORK PRACTICES

To maintain strong safety awareness and enforce safe procedures, the following personnel requirements and prohibitions will be established for the site:

- The subject work area will be restricted to authorized visitors and personnel. These individuals will be required to attend a tailgate safety meeting upon entering the subject area during which they will be informed of the various work zones and facilities, the health and safety hazards associated with their assigned work activities, control measures, the care and use of personal protective equipment, emergency

action plans, and other pertinent information. Tailgate safety meetings will be conducted daily at the beginning of each shift.

- All persons entering the site will be required to identify themselves to the SS. Persons who have not attended a tailgate safety meeting on that day will be required to do so with the SHSO or other authorized representative. Persons unfamiliar with the site will be informed of site hazards and instructed to avoid contact with contaminated surfaces, soils, sample materials, or related equipment, and will be instructed to remain upwind from all active work areas. Eating, drinking, chewing gum or tobacco, smoking or any practice that increases the probability of hand-to-mouth transfer and ingestion of material is prohibited in the EZ and CRZ. Drinking water or equivalent fluids may occur in the CRZ at the discretion of the SHSO. Before wearing Level C PPE, personnel may drink fluids in the CRZ. They will also complete the decontamination procedures necessary to exit the EZ, remove their respiratory protection, remove all protective gloves, and wipe their hands and face with pre-moistened towelettes

- Skin contact with contaminated or potentially contaminated surfaces, samples, or equipment should be avoided

- Site personnel will use the "Buddy System" when performing duties in the EZ work zone. Visual contact and communications will always be maintained between buddy pairs.

- As appropriate, equipment will be bonded and grounded, and will be spark resistant

- A fire extinguisher will be available for use in the work area during all working hours

- A portable emergency eyewash station will be located strategically in the work area. The eye wash station will be capable of flushing the eyes with copious amounts of water

- Upon leaving the CRZ, all persons will adhere to the decontamination procedures outlined in this HASP

- Legible precautionary labels will be affixed to containers of raw materials, intermediate products, mixtures, waste debris, and contaminated PPE, if any

- Contaminated PPE will not be removed from the site until it has been cleaned or properly packaged or labeled

- Hands will be thoroughly washed upon leaving contaminated or suspected contaminated areas before eating, drinking, or other such activity

- All hazardous wastes, soil samples, and other contaminated materials, if any, which are removed from the subject site will be accompanied by appropriate shipping papers

- A first-aid kit suitable for use at hazardous waste sites will be in the SZ

- No facial hair that interferes with a satisfactory fit of the mask-to-face seal is allowed on personnel required to wear respiratory protection
- Alcoholic beverage consumption is prohibited during the work day
- Safety devices on equipment must be left intact and used as intended
- Equipment and tools will be maintained in good working order, and used only for their intended purpose.

8.5 STANDARD OPERATING PROCEDURES

Employees and subcontractors are expected to follow the standard operating procedures listed below while involved in work at the site:

- Buddy System: A minimum of two workers will be always on-site times during all operations. The buddy pair(s) will always maintain visual and/or voice contact. [N.B. Subcontractor personnel can be teamed with Contract personnel, if necessary.]
- Personal Protective Equipment: All persons entering the EZ will do so while wearing the PPE equipment documented in this HASP. Such individuals will be trained in the proper use, care and maintenance of this equipment, will have submitted to a physical examination by a licensed medical physician, and will have been deemed physically fit to wear such equipment. The user will inspect such equipment before donning
- Unanticipated Hazardous Materials: In the event unanticipated hazardous material(s) are observed or symptoms of distress are experienced by workers, the SHSO will investigate. He/she may collect samples to ascertain the identity of the material(s)
- Symptoms of Distress: The SHSO and each subcontractor field supervisor will periodically observe personnel for symptoms of distress. Indications of such adverse effects include:
    - Changes in complexion, skin discoloration
    - Coordination difficulties
    - Changes in demeanor, disposition
    - Excessive salivation, papillary response
    - Changes in speech patterns
    - Nervousness or excitability
- Field personnel are required to contact their SS if they are experiencing:
    - Headache or dizziness

- Blurred vision
- Irritation to the eyes, mucous membranes, respiratory tract or skin
- Heat stress

- Daily Shutdown: All mechanical equipment will be parked and/or stored in a safe location designated by the PM, SS, or SHSO

- Stop Work Orders: In the event work is performed contrary to the provisions of the specifications and/or approved work plans, or contrary to the conditions of any applicable permit or certificate, or if upon inspection, it is determined that continuation of authorized work is likely to endanger any person or public and/or private property, then the work will be stopped by notice in writing served by the PM or any other authorized representative. An example of a Stop Work Order is included in Appendix C.

8.6 ILLUMINATION

Nighttime work activities are not anticipated; however, if nighttime work becomes necessary, adequate illumination will be provided to ensure safe working conditions. Artificial lighting for work areas will meet the minimum illumination requirements specified in OSHA Title 8, CCR Section 5192(m). Portable stationary lights will be will be powered by mobile generator units. They will be angled on-site and hooded to prevent light from spilling over from the project footprint.

8.7 SANITATION

An adequate supply of potable water will be provided. Potable drinking water containers will be capable of being tightly closed. The "common" drinking cup is prohibited. Adequate washing facilities for employees engaged in operations at the site will be provided. The facilities will be in proximity to the work site and will be equipped to handle both sexes.

8.8 SITE COMMUNICATION

Successful communication between field personnel is essential. An internal communication system among on-site personnel and an external communication system between on-site and off-site personnel will be established.

8.8.1 Internal Communication System

The internal communication system will be used to relay health and safety information, communicate changes in work, maintain site control, and alert personnel in case of emergencies. Verbal communications will be the primary method of routine communication.

8.8.2 External Communication System

The external communication system between on-site and off-site personnel is necessary to report to management, maintain contact with essential off-site personnel, and coordinate emergency response. Cellular telephones maintained in the SZ will be the primary means of external communication, and will be used to notify off-site emergency response agencies, if necessary.

8.9 VISITOR CLEARANCES

Entry to hazardous areas will be limited to individuals who must work in those areas. Unofficial visitors must not be permitted to enter hazardous areas while work in those areas is in progress. Official visitors should be discouraged from entering work areas, but may be allowed to enter only if they agree to abide by the provisions of this document, follow orders issued by the SHSO, and sign a compliance agreement that they were informed of the potential dangers that could be encountered in the areas.

9. Personal Protective Equipment (PPE)

The purpose of PPE is to isolate or protect personnel from the chemical and physical hazards that may be encountered at the work site. A site-specific PPE program has been developed. The various components of this program are levels of protection, respirator care, PPE inspection, and levels of protection per task. PPE and safety precautions will be appropriate to protect against the known and potential health hazards in the subject area. The protective equipment required has been selected based on the contaminant type, anticipated concentrations in the air, and known routes of entry into the body.

9.1 LEVELS OF PROTECTION (LOP)

The LOP required will be continually evaluated as field work progresses. It should be noted that there may be increases or decreases in the LOP. Unless otherwise specified by the Contractor, it is anticipated the Level D PPE will be used, with modified Level D and Level C PPE available on standby.

9.1.1 Level D

Level D consists of the following:

- Work clothes (long sleeve cotton shirt and cotton pants)
- Construction quality boots with steel toe and shank
- Chemical resistant inner gloves
- Hard hats
- Safety glasses and hearing protection.

At a minimum, the following PPE will be discarded and replaced daily:

- Chemical resistant inner gloves

New outer gloves should be used for each sample.

9.1.2 Modified Level D

Modified Level D personnel protective equipment for all personnel entering the work area may be used, subject to the SHSOs decision to change the level of protection used. Modified Level D consists of the items listed on the following page.

- Disposable chemical protective clothing (i.e., Tyvek®)
- Protective disposable inner gloves
- Chemical-resistant outer gloves
- Boots with steel toe and shank
- Splash-resistant goggles will be worn if splashing may occur
- Hard hats
- Safety reflective vests.

9.1.3 Level C

Level C consists of Modified Level D gear plus:

- Full-face or half-face respirators air-purifying respirators (APRs) equipped with NIOSH/OSHA approved cartridges sealed in a plastic bag and ready for immediate donning. The cartridges to be used will be combination HEPA-organic vapor cartridges.

9.2 RESPIRATOR CARE

Each individual is responsible for inspecting and maintaining his or her own respirator. Before being taken into the field, all respirators will be inspected, cartridges (if used) installed, a positive and negative pressure check conducted, and the entire respirator assembly will be sealed in a plastic bag. After the respirator is used, the following cleaning procedures will be used:

- Cartridges for air-purifying respirators will be removed and disposed of as contaminated PPE
- The respirator face piece interior and exterior will be wiped down with pre-moistened towelettes, such as baby wipes, and subsequently sealed in a plastic bag for transport to the respirator cleaning station at the personal decontamination facility
- After a respirator has been cleaned and rinsed, it will be patted dry and a clean towel and stored.

9.3 PPE INSPECTION

PPE inspection will be done before use, during use, and after use. The following will be inspected during the work activities at the site.

9.3.1 Clothing

Before use:

- Determine that the LOP is correct for the specific task at hand by consulting with the SHSO
- Visually inspect for:
  - Imperfect seams
  - Tears
  - Malfunctioning closures

During use look for:

- Evidence of chemical attack, such as discoloration, swelling, stiffening, and softening. However, chemical penetration can occur without any visible effects
- Closure failure
- Tears
- Punctures
- Seam discoloration.

9.3.2 Gloves

Before use, pressurize glove to check for pinholes. Blow into glove and make sure no air escapes.

9.3.3 Respirator

Before use:

- Make sure that respirators have been adequately cleaned
- Check material condition for signs of deterioration and distortion
- Examine cartridges or canisters for expiration dates and ensure that they are the proper type for intended use. Also, make sure that the canisters or cartridges have not been previously used.

After use, make sure that respirators have been adequately cleaned.

9.4 LEVEL OF PPE PROTECTION

The work being performed will be conducted in Level D. Levels of protection will be upgraded in accordance with directives of the SHSO. PPE ensembles have been selected to ensure a level of protection greater than the minimum required to protect employees from anticipated hazards. The SHSO will further assess the workplace hazards and ensure that the proper PPE ensemble is provided and worn during work activities.

9.5 EQUIPMENT REQUIRED TO BE AVAILABLE ON SITE

Items required on-site include:

- First-aid kit with eye wash
- Fire extinguisher
- Construction tape and barriers to delineate work zone
- Spill containment equipment (e.g., absorbent material)
- Decontamination equipment
- NO SMOKING signs
- A vehicle must be kept on-site when personnel are working for the transport of slightly injured personnel to the hospital (severely injured personnel MUST be transported by paramedics).

10. Decontamination Methods

Decontamination procedures will be implemented to protect personnel from hazardous substances that may contaminate and/or eventually permeate protective clothing, respiratory protective equipment, tools, vehicles, and other equipment used on-site; to protect all site personnel by minimizing the transfer of harmful materials into clean areas; to prevent mixing of incompatible chemicals; and to protect the community by preventing uncontrolled transportation of contaminants from the site. Personnel exiting the EZ will pass through the CRZ, where protective gear will be cleaned and/or discarded. The location of the CRZ will be determined during the initiation of site activities.

10.1 PERSONNEL DECONTAMINATION

Personnel decontamination facilities will be supplied with a potable water supply. All personnel leaving the EZ must exit through the CRZ and perform appropriate decontamination procedures to prevent the transfer of contaminated materials into clean areas. The types of contaminants that they may have contacted and their function in the CRZ should determine the extent of their decontamination.

The decontamination process consists of a series of procedures performed in a specific sequence, depending on the level of PPE worn and site contaminants present. Before the start of work activities, the number and layout of decontamination stations will be determined. To prevent cross-contamination, each procedure will be performed at a separate station, and stations will be arranged in order of decreasing contamination.

If Level C equipment is used, the following procedures will be instituted for decontamination of all articles leaving the EZ and CRZ to prevent or reduce the physical transfer of contaminants by people and/or equipment from the subject area.

PERSONNEL EXITING THE EZ:

- If the worker is heavily contaminated, water will be used to remove contamination prior to entering the CRZ. Water will be contained in a bucket or tub
- Deposit used equipment in the EZ or on tables in the CRZ for subsequent decontamination
- Scrub outer boot covers or polyvinyl chloride (PVC) overboots and outer gloves with decontamination solution or detergent and water
- If gross contamination is evident, remove contamination, to the extent practicable, from disposable suit and/or tank using disposable wipes or towels, with assistance from CRZ technician
- Remove tape around boots and gloves. Remove outer boot covers or PVC overboots and outer gloves. Discard tape, boot covers, and outer gloves in appropriate container

- Remove inner gloves and discard in appropriate container
- Thoroughly wash hands and face
- All PPE, including respirator, protective clothing and boots, will be removed and placed in appropriately marked containers, for disposal or for decontamination (boots and respirator minus cartridges) as the individual steps from the CRZ to the SZ
- Used boots, respirators, and other reusable personal protective equipment will be dismantled (if possible), decontaminated with mild detergent and warm tap water, and rinsed with clean tap water in the CRZ
- The spent solutions, brushes, and the like will, until shown otherwise, be considered contaminated and so treated
- Workers/visitors will be required to wash thoroughly with soap and water prior to leaving the site and will be instructed to remove work clothes and shower as soon as possible thereafter.

10.2 EQUIPMENT DECONTAMINATION

Support vehicles and equipment are to be left out of the exclusion area, to the extent practical, so that decontamination will not be necessary. If necessary, vehicles and equipment will be decontaminated before exiting the EZ. People from the subject area will institute the following procedures for decontaminating all vehicles and equipment leaving the EZ and CRZ to prevent or reduce the physical transfer of contaminants, as necessary:

- An equipment decontamination pad or area will be designated for cleaning large equipment utilized during work activities
- All sampling devices will be decontaminated by scrubbing or wiping a decontamination solution and water on the device
- Tools that are difficult to decontaminate will be kept in the EZ and handled only by workers using the appropriate PPE
- Respirators will be decontaminated and sanitized before being reused
- Following decontamination of equipment using steam cleaning, if appropriate, a final steam/water rinse will be applied
- The spent solutions, brushes, and the like will, until shown otherwise, be considered contaminated and so treated
- Wash materials will be disposed of properly

All porous equipment that is believed to be contaminated will be disposed of as hazardous waste.

10.3 EMERGENCY DECONTAMINATION

During emergency situations, decontamination will be performed to the maximum extent possible without compromising medical attention to the victim. If decontamination may aggravate or cause more serious health effects, or if injuries are life threatening, prompt lifesaving, first aid and medical treatment should be administered without decontamination or concurrently with it. Outer garments can be removed (depending on the weather) if it does not delay or interfere with medical treatment, or aggravate the problem. Respirators and backpack assemblies must always be removed. If outer garments cannot be safely removed, the victim should be wrapped in plastic, rubber, or blankets to minimize contamination of emergency transport vehicles and medical personnel. Whenever possible, site personnel should accompany the contaminated victim to the medical facility to advise of matters involving decontamination.

10.4 DECONTAMINATION OF PERSONNEL, PPE, AND EQUIPMENT

The following is a list of supplies needed to conduct proper decontamination of personnel, PPE, and equipment:

- Drop cloths of plastic or other suitable materials on which heavily contaminated equipment and other protective clothing may be deposited
- Collection containers, such as drums or suitably lined trash cans for storing disposable clothing and heavily contaminated personal protective clothing or equipment that must be discarded
- Lined box with absorbents for wiping or rinsing off gross contamination and liquid contaminants
- Galvanized tubs, stock tanks, or children's wading pools to hold wash and rinse solution. The tubs should be large enough for a worker to place a booted foot inside
- Appropriate wash solutions to wash off and reduce hazards associated with the contaminants
- Long-handled, soft-bristled brushes to scrub contaminants off PPE and for general exterior cleaning of heavy equipment
- Paper or cloth towels for drying protective clothing and equipment
- Metal or plastic drums for contaminated wash and rinse solutions
- Plastic sheeting, sealed pads with drains, or other appropriate methods for containing and collecting contaminated wash and rinse solutions
- Soap or wash solutions, wash cloths, and towels for personnel.

11. Emergency Response Procedures

This Emergency Response/Contingency Plan (ERP) has been developed to include instruction and procedures for personnel evacuation and procedures for medical emergencies that may occur during the project. All personnel emergency conditions require actions conducted in a manner that minimizes health and safety risks. All on-site personnel must be familiar with the ERP. Additions to the ERP will be incorporated into this HASP by addendum. All aspects of the plan will be addressed as part of the site-specific health and safety training required for all personnel.

11.1 RESPONSIBILITIES

11.1.1 Corporate Health and Safety Officer

The CHSO, or designee, will oversee the development and approval of the ERP and perform audits to ensure that the ERP is in effect and that all pre-emergency requirements are met. The CHSO will act as a liaison to applicable regulatory agencies and notify OSHA of reportable accidents or fatalities.

11.1.2 Site Supervisor

The SS will be responsible for ensuring that all site work is performed in a safe manner. In an emergency situation, the SS may serve as a focal point for the dissemination of information or as a Community Relations Manager. On this site, the SS will act as the Emergency Coordinator.

11.1.3 Project Manager

The PM is ultimately responsible for field implementation of the ERP. This includes communication specific health and safety requirements to the SS and consulting with the CHSO regarding planned activities, unforeseen conditions and for resolving any questions with identified safety procedures.

11.1.4 Site Health and Safety Officer

The SHSO is responsible for assisting the CHSO in development of the ERP and ensuring its provisions are abided by on-site. The SHSO is responsible for ensuring that all personnel are evacuated safely and that equipment is shut down or secured in the event of a stop work order or evacuation. The SHSO will complete an Accident/Incident form, which includes the following:

- A description of the emergency
- Date, time, and name of all persons/agencies notified and their response
- A description of corrective actions implemented or other resolution of the incident.

11.1.5 Emergency Coordinator

The Emergency Coordinator is responsible for implementing the ERP whenever conditions warrant. The Emergency Coordinator is responsible for ensuring the emergency treatment, transport, and evacuation of site personnel and notification of the appropriate individuals when the ERP has been implemented. The Emergency Coordinator also is responsible for prior notification of emergency services (fire, police, hospital, ambulance, etc.) about the nature and duration of work expected on the site, types of COPCs, possible health and safety effects and the anticipated emergency conditions.

At the beginning of the project, it will be determined who among the SS, PM and SHSO will serve as the primary Emergency Coordinator and secondary Emergency Coordinator (in case of incapacity or absence of the primary Emergency Coordinator) for the entire project.

11.1.6 On-Site Personnel

All on-site personnel are responsible for knowing the ERP and its procedures. Personnel will be expected to notify the Emergency Coordinator of occurring or impending emergencies and to cooperate fully once the plan has been implemented. All information is to be communicated to the Emergency Coordinator. All media and public inquiries are to be directed to the Emergency Coordinator.

11.2 POTENTIAL EMERGENCIES

The activities, layout, and hazards of the site have been evaluated to determine anticipated potential emergencies. Five categories of emergencies have been identified. The list will be revised in the event on-site conditions or operations warrant. The ERP will be updated in case of a revision or addition to the list. Anticipated emergencies include:

- Injury or illness
- Fire
- Explosion
- Spill/environmental release
- Natural disaster/hazard.

At this site, emergencies that may arise include accidents requiring first aid, fires, and potential exposures to impacted soil.

11.3 PUBLIC RESPONSE AGENCIES

Contact between site personnel and local emergency services will assist in developing a good working relationship and provide an opportunity for the development of effective, overlapping emergency plans. The

Emergency Coordinator will contact the local hospital before beginning work at the site. The nature and duration of work, types of COPCs, and potential emergency conditions will be discussed.

11.4 EMERGENCY CONDITIONS

Whenever there is an emergency at the site, the following steps will be taken:

- An immediate report of the emergency will be made to the PM and SS
- The emergency will be assessed by the SS and identify:
  - The name, location, and telephone numbers of the appropriate agencies
  - The nature of the emergency
  - Hazardous conditions (e.g., fire, explosion, etc.)
  - The amount of material involved or released
  - The extent to which evacuation should occur
- The SS will notify all personnel on-site and activate the appropriate response
- All work will be stopped and evacuation initiated if appropriate
- The SS will notify the following as necessary:

Table 5. Emergency Contact Information

Agency	*Type of Incident*	*Phone Number*
Ambulance	Any situation requiring immediate medical attention	911
St. Francis Medical Center	Any situation requiring immediate medical attention	(310) 900-8900
Fire Department	Any uncontrollable fires	911
Police Department	Any crimes	911
USEPA	Damage to the environment	(800) 342-4636
LAUSD Office of Environmental Health & Safety	Any accident or incident	(213) 210-1000

If the emergency draws the attention of the public, all inquiries are to be directed to the SS.

11.5 EMERGENCY EQUIPMENT

At the minimum, the following emergency equipment will be maintained on-site during field activities:

- Fire extinguisher
- Cell phone

- First-aid kit
- Eye wash solution.

11.6 ON-SITE PERSONNEL INJURY/ILLNESS

First aid will be administered on-site as necessary. Personnel requiring medical attrition will be transported or emergency medical services will be contacted to respond. The medical data sheet will accompany the injured person. The route to the hospital is shown on Figure 1. This map will be posted at the first-aid station and is to be taken with the driver of the injured individual. The hospital will be notified of the impending arrival and provided with pertinent information while the injured individual is being transported.

Basic first aid procedures must be followed in the event a person working on-site is injured. Depending on the severity of the injury, emergency medical response may be sought. If the person can be moved, they will be taken to the edge of the work area where emergency first aid can be administered. If necessary, transportation to the local emergency medical facility will be provided.

If the injury to on-site personnel involves chemical exposure, the following first-aid steps must be taken immediately:

- Eye Exposure -- If foreign material (liquid or solid) gets into the eyes, wash eyes immediately for at least 15 minutes using water and lifting the lower and upper lids occasionally. Obtain medical attention immediately.
- Skin Exposure -- Wash skin immediately with water. Obtain medical attention immediately.
- Inhalation -- If a person has inhaled a large amount of organic vapor, dust, etc., move them to fresh air at once. Obtain medical attention immediately. If breathing has stopped, appropriately trained personnel and/or medical personnel should perform CPR. Keep the person warm and comfortable.
- Ingestion -- If liquid or solid is swallowed, obtain medical attention immediately. The Poison Control Center also must be consulted.

The SHSO must inform the PM of any injury/accident, and a written report of the accident, its causes and consequences must be submitted to the client within 48 hours of the incident.

11.6.1 Temperature Related Problems

First aid for all forms of heat stress includes cooling the body. This may involve removing PPE and moving the person to a cooler environment to rest.

11.6.2 Emergency Decontamination

In case of a medical emergency, gross decontamination procedures will be implemented and the person transported to the nearest medical facility. If a life-threatening injury occurs and the injured person cannot be

decontaminated without causing additional injuries, every effort will be made to minimize the exposure of others to the contaminant. The medical facility will be notified of the nature of the exposure and the efforts that were undertaken to treat the individual on-site. Decontamination measures for emergencies will be based on the toxicity of the contaminant and the immediacy of the emergency.

11.6.3 Fire

The Contractor will not respond to any fire that is larger than can be handled by on-site portable fire extinguishers. Any fire too large to be extinguished by portable extinguishers will be reported immediately to the local fire department by dialing 911.

There are three basic ways to extinguish a fire:

- Remove its air
- Remove its fuel
- Cool the fire.

To put out a fire:

- Put it out with a fire extinguisher, water, or other available liquid (e.g., coffee)
- Move all flammable materials away from the fire
- Smother the fire with a coat or other heavy (preferably wet) object.

To use a fire extinguisher:

1) Pick the extinguisher up by the handle
2) Pull the ring at the top to release the safety pin
3) Keep the extinguisher upright, aim at the base of the fire, and squeeze the handle.

Portable fire extinguishers typically available at project sites are multi-purpose dry chemical (ABC). These types of extinguishers are effective on ordinary combustibles, flammable liquids, and electrical equipment. The effective range is approximately 5 to 15 feet. The contents will be discharged in 8 to 25 seconds.

No individual should attempt to put out a fire unless he/she feels confident to do so. If the individual is unsure, help should be summoned immediately. The first five minutes are the most critical in putting out a fire. It is crucial that the fire department be notified as soon as possible when a fire is discovered. Do not hesitate to report small fires. The fire can spread and become a threat to everyone's safety.

Most fire related deaths occur for poisonous gases, smoke, and panic. Few deaths are the result of being burned. Panic is the most common cause of death in a fire situation. In the event of a fire, know what to do

and DO NOT PANIC. If a fire occurs while working within a building, evacuate the building by taking the steps identified on the following page.

1) Listen to the instructions of the SS
2) Walk to the nearest exit unless instructed otherwise
3) To prevent a bottleneck, move to the assembly area
4) Await further instructions.

11.6.4 Explosion

An explosion can be the most difficult emergency to deal with. Reasons include trauma, death, fire, unstable structures, secondary explosions, toxic clouds, and destruction of emergency equipment. The following measures and backup systems may be required:

- Initiate evacuation procedures
- Notify appropriate response agencies (fire, police, etc.)
- Assess situation -- are secondary emergencies occurring or about to occur?
- Turn off or remove sources of explosives
- Attend to the injured
- Check for exposed live utilities
- Initiate spill response measures (if necessary).

11.7 SPILLS/ENVIRONMENTAL RELEASE

The first responder on the scene is responsible for spill containment until additional help arrives. Upon arriving at the scene, the individual will determine:

- The location of the spill
- If liquid, direction of flow
- If possible the identity of the leaking material
- Potential hazards to responders.

If the leaking material is not completely characterized, the maximum PPE should be worn and only experienced individuals should enter the area.

Spilled liquids may be contained by the construction of dikes, diversion of spills to specific areas, inlet blockage, of solidification. Special attention should be given to quickly preventing spills from leaving the confines of the site and entering the public right-of-way or sewer/storm drain system.

Equipment or supplies for controlling spills may include the following:

- Sandbags
- Sorbent socks, pillows, etc.
- Dry granular sorbent
- Salvage pumps
- Drums
- Plastic sheets, tarps, salvage covers, etc.
- Sorbent booms
- Barrier booms.

In addition to containing the spilled materials, the source of the spill also must be controlled. For leaking containers (e.g., drums, small tanks, etc.), the material should be transferred to vessels capable of storing the liquids. Used materials such as sorbent pads/booms/sheets or granular sorbents are to be collected in the appropriate storage containers until they can be disposed of properly.

Once containment of the spill has occurred, and/or sufficient help has arrived, the PM must be notified. The PM then will notify the appropriate parties (e.g., DTSC, USEPA, local fire department, etc.) to report the release.

11.8 NATURAL HAZARDS

In the event of a natural disaster, work will be halted and the site secured as possible. Restoration after the event will include a recheck of all operating systems, containment and cleanup of spills and resumption of operations.

11.9 BOMB THREATS/CIVIL COMMOTION

Bomb threats, vandalism, arson, riots, and assaults are almost impossible to anticipate. However, using common sense and implementing security measures can prevent or reduce their impact and proper response can help control further loss.

11.10 EMERGENCY EVACUATIONS

In the event of a catastrophic incident, work activities will be immediately stopped and all project personnel will be evacuated from the work location or the Site. Personnel will be evacuated in a direction opposite from the critically affected area and will assemble at a pre-designated refuge location outside of the work area or the Site. If conditions allow, the SHSO will remain on-site to direct the evacuation and to check that all employees have been evacuated. Once all individuals have gathered at the evacuation assembly area, the SHSO will take a head count and direct the administration of first aid to any injured individuals.

The SHSO will designate a universal signal for emergency evacuation (e.g., use of a horn) and designate the evacuation assembly location. The SHSO will communicate these designations to all field personnel during the initial site-specific training. The SHSO will determine any changes in these designations mandated by changing Site conditions, and will communicate these changes to workers during the daily tailgate safety meetings.

11.11 HAZARDOUS MATERIALS INFORMATION

EPA-INFO	(800) 342-4636
TOXLINE	(301) 496-1131
CHEMTREC (24-hour, emergency)	(800) 424-9300
ORNL, Toxicology Information Response Center	(615) 576-1743
Poison Control Center	(800) 682-9211

11.12 WORK SITE ADDRESS

LAUSD David Starr Jordan Senior High School
2265 East 103rd Street
Los Angeles, California 90002

11.13 CONTACTS

Andrew Modugno
Los Angeles Unified School District
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017
Telephone: (213) 241-3433

11.14 HOSPITAL ADDRESS AND ROUTE

St. Francis Medical Center (see Figure 3)
3630 East Imperial Highway
Lynwood, California 90262
(310) 900-8900

11. Emergency Response Procedures

Figure 3. Emergency Hospital Route

12. References

Waterstone Environmental, Inc. 2016. Limited Soil Screening Investigation at David Starr Jordan Senior High School. September 29, 2016.

Anderson Environmental. 2017. Technical Memorandum – Assessment of Petroleum Impacts at David Starr Jordan High School South of Sub Area 2. February 20, 2017.

Appendix A. Safe Work Practices – Heat Stress and Stroke Prevention

Appendix

Heat stress may manifest as a variety of health effects ranging in seriousness from temporary fatigue to death. Factors influencing heat stress include individual susceptibility, environmental conditions, personnel protective equipment, and the level of physical exertion. The Site Safety Officer will take precautionary measures against heat stress, and monitor workers for symptoms of heat stress or heat stroke, as necessary, depending on the ambient temperature and worker susceptibility.

Heat Stress Symptoms

Symptoms of heat stress include the following:

- Heat rash
- Heat cramps caused by heavy sweating
- Pale, cool, moist skin
- Dizziness
- Nausea
- Fainting.

Heat Stroke

In extreme cases, heat stroke causes the body temperature to rise to critical levels. Immediate action must be taken to cool the body to prevent severe injury or death. Symptoms of heat stroke include the following:

- Red, hot, dry skin
- Lack of perspiration
- Nausea
- Dizziness and confusion
- Strong rapid pulse
- Coma.

Reproductive Effects

- If during the first trimester of pregnancy, a female worker's core temperature exceeds 102.2 ^{o}F for extended periods, there is an increased risk of malformation to the unborn fetus.

- Temporary infertility in both men and women may be associated with core temperatures exceeding 100.4 °F (ACGIH, 1996).

Worker Susceptibility

Factors that may affect a person's susceptibility to heat stress include:

- Dehydration
- Acclimatization
- Physical condition
- Infection
- Sunburn
- Medications
- Chronic disease
- Age.

Safe Work Practices

The following practices are recommended for moderate exertion work (e.g., sitting or standing with intermittent walking, etc.) in Level D ensemble at adjusted temperatures of not more than 80°F:[1]

- Inform workers of heat stress symptoms.
- Encourage workers to drink 16 ounces of cool water or sport drink before commencing work.
- Encourage workers to drink water or sport drink at each work break.
- Visually monitor workers for symptoms of heat stress.

The recommended frequency for rest breaks and monitoring is presented in Table 1. When the ambient air temperature, adjusted for the added effects of direct sunlight (see Table 1), reaches 80°F, or workers begin to exhibit signs of heat stress, the Site Safety Officer shall monitor pulse rates at the beginning of each break. For workers wearing semi-permeable or impermeable encapsulating suits, monitoring shall be performed

[1] [Note: Heat stress may be of especial concern when working inside of a tank or other confined space where humidity may be high and temperatures may exceed ambient air temperatures. The Planning Center employees are prohibited from entering a confined space or tank except under the conditions specified in The Planning Center's Work Practices for confined space.]

when the adjusted temperature reaches 70°F. If rates exceed 55 pulses per 30-second period, the duration of the next work cycle shall be shortened by 33 percent.

The following actions shall be taken in response to heat stress symptoms:

- Workers who exhibit symptoms of heat stress shall not be permitted return to work until symptoms have abated.
- If a worker exhibits symptoms of heat stroke, immediate action shall be taken to cool the body, and emergency medical care summoned
- Notify the Corporate Health and Safety Officer when persons exhibit signs of heat stress.

Table A-1 Recommended Work Break Frequency and Monitoring to Prevent Heat Stress (2), (3)

Adjusted Temperature Range	Level D	Impermeable Clothing
72.5 °F-77.5 °F	Every 150 minutes	Every 2 hours
77.5 °F-82.5 °F	Every 2 hours	Every 1.5 hours
82.5 °F-87.5 °F	Every 1.5 hours	Every 1 hour
87.5 °F-90 °F	Every 1 hour	Every 30 minutes
90 °F and Above	Every 45 minutes	Every 15 minutes

References:

American Conference of Governmental Industrial Hygienists. Threshold Limit Values for Chemical Substances and Physical Agents, Biological Exposure Indices. Cincinnati. 1996.

National Institute for Occupational Safety & Health. Occupational Safety & Health Guidance Manual for Hazardous Waste Site Activities. Cincinnati. October 1985.

(2) The adjusted temperature considers the effects of direct sunlight. The adjusted temperature may be calculated by measuring the temperature with a standard glass-mercury thermometer that is shielded from sunlight or other radiant heat sources and applying the following formula:

Adjusted Temperature °F = °F + (13 x % sunshine)

[Note: On a typical cloudless Southern California day, the % sunshine = 100%.]

(3) This table presents the recommended frequency of rest and monitoring for physically fit and acclimatized workers, working at a low to medium low exertion level (e.g., 250 kilocalories/hr.)

Appendix B. Safe Work Practices for Excavation Activities

Appendix

Consultant employees and their subcontractors shall comply with all applicable regulations regarding excavation including but not limited to the California Occupational Safety and Health (Cal-OSHA) requirements that are contained in Title 8, California Code of Regulations (CCR), Sections 5140 and 5141. The following general safe work practices shall apply:

- Consultant employees and their subcontractors are prohibited from entering excavations more than 4 feet in depth unless special approval is obtained from the Corporate Health and Safety Officer.
- At least 48 hours before commencing any excavation, contact Underground Service Alert (800) 422-4133. Retain a copy of the service ticket with the project files.
- In addition to contacting Underground Service Alert, a geophysical survey shall be performed to identify service lines, gas lines, and other obstructions.
- Where the potential for an oxygen deficient, flammable or toxic atmosphere exists, air monitoring shall be performed to ensure safe conditions before employees enter excavations more than 4 feet in depth.
- When hazardous atmospheres exist and the excavation is more than 4 feet deep, the excavation shall be considered a confined space, and confined space permit procedures shall apply.
- For trenches or excavations more than 4 feet deep, a ladder, stairway, or other safe means of egress shall be provided to require no more than 25 feet of lateral distance to reach a means of egress. Structural ramps must be designed by a competent person. When ramps are constructed of two or more structural members, they must be connected to prevent displacement.
- Excavations that are 5 feet or more in depth shall be protected from cave-in using sloping or support systems (aluminum hydraulic shoring is the preferred system).
- In general sloping shall be no steeper than 34 degrees (1.5 to 1). For excavations less than 20 feet deep, the following maximum allowable slopes may be used as provided for in Title 8, Section 5141, Appendixes A and B:
  - Excavations in stable rock 90 degrees
  - Excavation in Type A Soils 53 degrees (0.75 to 1)
  - Excavation in Type B Soils 45 degrees (1 to 1)
  - Excavation in Type C Soils 34 degrees (1.5 to 1).
- Whenever slopes exceed 34 degrees, the soils type and slope stability must be reviewed by a registered geologist or a professional geotechnical engineer before employees enter an excavation.

Appendix

- Aluminum hydraulic shoring shall be installed in accordance with the manufacturer's tabulated data or the installation must be approved by a civil engineer, registered in the state where the work is being performed.

- Shoring systems for which there are no manufacturer's specifications must be approved by a civil engineer, who is registered in the state where the work is being performed.

- Sloping and benching will not sufficiently protect workers in excavations deeper than 20 feet bgs. Such excavations will require the implementation of protection systems (shoring, etc.) designed by a licensed engineer.

- The excavation edge shall be clearly marked with barricades and/or hazard tape.

- Employees shall be protected from excavated or other material by keeping such material at least 2 feet from the excavation edge, or using physical barriers.

- Persons shall not work underneath loads handled by lifting or digging equipment.

- Persons shall not work in excavations in which water has accumulated unless adequate precautions have been taken. Precautions may include shoring or other means which have been approved by a registered geologist or professional engineer.

- A competent person shall inspect the integrity of the excavation at the beginning of each work shift.

- All excavations, open pits, wells, or shafts shall be barricaded, covered, or secured when job site personnel are not present to prevent persons or animals from accidentally falling into the excavation.

Appendix C. Health and Safety Forms

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 6/11/18	Time: 0710
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES

Name Printed/Signature	Name Printed/Signature
[illegible] MENDOZA	
JOHN JASUNTIC (TPE)	

Meeting Conducted by: Mike Watson
Supervisor: Dwayne Means

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
Mike Watson	Associate Geologist	6/11/18
CHELSEY MENDOZA	DRILLER	6/11/18
JOHN SINSENJR	DRILLER HELPER (IPE)	6/11/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 6/12/18	Time: 0705
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911

Special Equipment: N/A

Other:

ATTENDEES

Name Printed/Signature	Name Printed/Signature
JOHN STINSON JR (IPE)	
~~ROBERT HANCOCK~~ (IPE)	

Meeting Conducted by: Mike Watson

Supervisor: Dwayne Mears

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
Mike Watson	Associate Geologist	6/12/18
[illegible]	DRILLER	6/12/18
JOHN SINSUN JR	DRILLER	6/12/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 6/13/18	Time:
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911

Special Equipment: N/A

Other:

ATTENDEES

Name Printed/Signature	Name Printed/Signature
CHRISTOPHER MENDOZA	
Jake Paul Mitchell	
JOHN SIMPSON	

Meeting Conducted by: Mike Watson

Supervisor: Dwayne Means

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
Mike Watson	Associate Geologist	6/13/18
[illegible]	DRILLER	6/13/18
John Paul M. Ford	Field Tech	6/13/18
JOHN SIMPSON JR	DRILLER	6/13/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 6/14/18	Time:
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911

Special Equipment: N/A

Other:

ATTENDEES

Name Printed/Signature	Name Printed/Signature
SUBJECT MENTOR JOHN SINGUNJI	

Meeting Conducted by: Mike Watson
Supervisor: Dwayne Mears

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
Mike Watson	Associate Geologist	6/14/18
Gilbert Mendoza	DRILLER	6/14/18
JOHN SINSUN JR	DRILLER HELPER	6/14/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 6/18/18	Time: 200
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED	
Protective Clothing/Equipment: Level D	
Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.	
Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.	
Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.	
Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.	
Emergency Procedures: Call 911 or take injured individual to nearest emergency room	
St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262	
Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES	
Name Printed/Signature	Name Printed/Signature
MIKE COBURN / [signature]	
CHRIS VALENCIA / [signature]	

Meeting Conducted by: Mike Watson

Supervisor: Dwayne Mears

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE COBURN	SURV. PARTY CHIEF	6-18-18
CHRIS VALENCIA	SURVEY	6/18/18
Mike Watson	Associate Geologist	6/18/18

Appendix

HEALTH AND SAFETY COMPLIANCE AGREEMENT

Project Number: LASD1-327 Site Location: 2265 E 103rd St, LA 90002

Site Name: David Starr Jordan Sr HS Date of Plan: August 2017

	Name	Signature	Date
Project Manager:	Mike Watson		6/8/18
Project Health & Safety Officer:	MIKE WATSON		6/8/18
Site Health & Safety Officer:	MIKE WATSON		6/8/18

I the undersigned have reviewed a copy of the health and safety plan prepared for the project identified above. I have read the plan, understand it, and agree to comply with all the health and safety requirements contained in this plan. I understand that I may be prohibited from working on the project for violating any of the requirements.

SIGNED	NAME	COMPANY	DATE
	MIKE WATSON	PLACEWORKS	6/8/18
	John Paul Mifsud	Goldak	6/8/18
	RUDY ALVAREZ	ATG Concrete	6/8/18
	[illegible]	IPE	6/11/18
	JOHN SINDERSON	IPE	6/11/18
	[illegible]	[illegible]	6/12/18
	MIKE COBURN	CALVADA	6/18/18
	CHRIS VALENCIA	CALVADA	6/18/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number: LASD1-32.7
Date: 7/11/19	Time: 0700
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911

Special Equipment: N/A

Other:

ATTENDEES

Name Printed/Signature	Name Printed/Signature
MIKE WATSON RUDY ALVAREZ	

Meeting Conducted by: MIKE WATSON
Supervisor: DWAYNE MEARS

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	7/11/18
RUDY ALVAREZ	A+G concrete	7/11/18

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 7/12/18	Time: 0700
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED	
Protective Clothing/Equipment: Level D	
Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.	
Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.	
Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.	
Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.	
Emergency Procedures: Call 911 or take injured individual to nearest emergency room	
St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262	
Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES	
Name Printed/Signature	Name Printed/Signature
MIKE WATSON [signature]	
GILBERT MENDOZA [signature]	
JOHN ST. GEORGE IPE [signature]	

Meeting Conducted by: MIKE WATSON

Supervisor: DWAYNE MEARS

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	7/12/18
~~ALBERT~~ MENDOZA	DRILLER	7/12/18
JOHN STENLIK	DRILLER/HELPER	7/12/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 7/13/18	Time: 0700
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES

Name Printed/Signature	Name Printed/Signature
MIKE WATSON	
[illegible] JOHNSINSON JR	

Meeting Conducted by: MIKE WATSON

Supervisor: DWAYNE MEARS

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	7/13/18
[illegible]	DRILLER	7/13/18
JOHN SANSONE	DRILLER/HELPER	7/13/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 7/16/19	Time: 0705
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES

Name Printed/Signature	Name Printed/Signature
MIKE LATSON	
GILBERTO MENDOZA	
JOHN SIMSON JR	

Meeting Conducted by: MIKE LATSON
Supervisor: DWAYNE MARS

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	7/16/18
[illegible]	DRILLER	7/16/18
JOHN SINSUN JR	DRILLER	7/16/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 7/7/17	Time: 0720
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES

Name Printed/Signature	Name Printed/Signature
MIKE WATSON	
JOHN STINSON JR	
CHRISTER MENDOZA	

Meeting Conducted by: MIKE WATSON
Supervisor: DUAYNE MEAKS

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	7/17/18
JOHN SINSUN JR	DRILLER	7/17/18
GILBERTO MENDOZA	DRILLER	7/17/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 7/18/18	Time: 0720
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES

Name Printed/Signature	Name Printed/Signature
MIKE LATOU	
JOHN SINSUN JR	
[illegible] MENDOZA	

Meeting Conducted by: MIKE LATOU
Supervisor: DWAYNE MEARS

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	7/18/18
JOHN SINSON JR (IRE)	DRILLER	7/18/18
CHESTER MENSON	DRILLER	7/18/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 7/19/18	Time: 0700

Site Location: 2265 East 103rd Street, Los Angeles, CA 90002

Type of Work: Environmental Investigation with Soil Sampling

Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911

Special Equipment: N/A

Other:

ATTENDEES

Name Printed/Signature	Name Printed/Signature
MIKE WATSON	
JOHN SINTNOR	
CHRISTO MENDOZA	

Meeting Conducted by: MIKE WATSON

Supervisor: DWAYNE MEARS

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	7/19/18
JOHN SINSUNTR	DRILLER	7/19/18
GREGORIO MENDOZA	DRILLER	7/19/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 8/10/18	Time: 0700

Site Location: 2265 East 103rd Street, Los Angeles, CA 90002

Type of Work: Environmental Investigation with Soil Sampling

Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.

Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.

Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911

Special Equipment: N/A

Other:

ATTENDEES

Name Printed/Signature	Name Printed/Signature
Mike Watson	
Ruby Alvarez	
Mario Ibarra	
Joyce Saucedo	

Meeting Conducted by: Mike Watson

Supervisor: Dwayne Means

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	8/10/18
RUDY Alvarez	Driller	8/10/18
Marco Juarez	Driller	8/10/18
Jorge Saucedo	Driller	8/10/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date: 8/13/19	Time: 0700
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D

Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.

Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.

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Emergency Procedures: Call 911 or take injured individual to nearest emergency room

St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES

Name Printed/Signature	Name Printed/Signature
MIKE WATSON	
Marco Juarez	

Meeting Conducted by: MIKE WATSON
Supervisor: DWAYNE MEARS

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
MIKE WATSON	ASSOCIATE GEOLOGIST	8/13/18
Marco Juarez	Driller	8/13/18

Appendix

SAFETY MEETING FORM

Facility: LAUSD David Jordan Starr Senior High	Job Number:
Date:	Time:
Site Location: 2265 East 103rd Street, Los Angeles, CA 90002	
Type of Work: Environmental Investigation with Soil Sampling	
Chemicals: Lead, arsenic, and total petroleum hydrocarbons (TPH).	

SAFETY TOPICS PRESENTED
Protective Clothing/Equipment: Level D
Chemical Hazards: Possible inhalation, ingestion, and dermal exposures to the chemicals of potential concern (COPCs) listed above.
Physical Hazards: Tripping and falling, injuries from working close to heavy mechanical equipment (drill rig, truck, forklift, etc.), and on-site and off-site vehicle traffic hazards.
Environmental Hazards: Heat-related disorders – drink plenty of liquids and rest as needed in shaded areas; stinging insects.
Health Effects: Weakness, abdominal pain, headache, dizziness, light headedness, nose/throat/eye irritation.
Emergency Procedures: Call 911 or take injured individual to nearest emergency room
St. Francis Medical Center, 3630 East Imperial Highway, Lynwood, California 90262

Phone: (310) 900-8900	Paramedics Phone: 911
Special Equipment: N/A	
Other:	

ATTENDEES	
Name Printed/Signature	Name Printed/Signature
Meeting Conducted by:	
Supervisor:	

Appendix

Acknowledgement Statement

I understand and agree to abide by the provisions of this health and safety plan, including the appendixes.

Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
Name	Title	Date
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Name	Title	Date
Name	Title	Date
Name	Title	Date

Appendix

HEALTH AND SAFETY COMPLIANCE AGREEMENT

Project Number:_____ Site Location:_____

Site Name:_____ Date of Plan:_____

Project Manager:	Name	Signature	Date
Project Health & Safety Officer:	Name	Signature	Date
Site Health & Safety Officer:	Name	Signature	Date

I the undersigned have reviewed a copy of the health and safety plan prepared for the project identified above. I have read the plan, understand it, and agree to comply with all the health and safety requirements contained in this plan. I understand that I may be prohibited from working on the project for violating any of the requirements.

SIGNED	NAME	COMPANY	DATE

Appendix

SAFETY COMPLETION REPORT

(This report must be submitted to the Health and Safety Officer within five days after the completion of the project.)

Report Completed:_____
Name Signature Date

Project Name:_____ Project Number:_____

1. Evaluation of Health and Safety Plan (Add additional pages if required.)

a. Was the HSP Adequate? • No • Yes

b. Did the HSP adequately anticipate chemical and physical hazards present at the Site? • No • Yes

c. What situations were discovered that were not anticipated in the HSP?

_____

_____

d. How were these situations handled?_____

_____

_____

e. Was the recommended personal protective equipment (PPE), such as gloves, respirators, eye, face and whole-body skin protection appropriate to protect employees from chemical hazards? • No • Yes

f. If not, what should be improved in future HASPs of this type?_____

_____

_____

2. Exposure Data

a. Were any employees exposed to chemical or physical hazards because of failure of PPE or other problems?

• No • Yes

If yes, give names of employees:_____

_____

b. Was monitoring performed? • No • Yes

c. What type of monitoring was performed? • Area Monitoring • Personal (On Employee) Monitoring

d. What type of monitoring equipment was used?

- Personal Air Sampling Pumps
- Vapor Badges
- Charcoal Sorbent Tube (Analyzed by Lab)
- Direct Reading instruments including:
  - PID
  - Photovac
  - Combustible Gas
  - Hydrogen Sulfide
  - FID
  - MiniRae
  - Oxygen Deficiency
  - Carbon Monoxide
  - Hnu
  - OVM
  - Other
- Colorimetric Indicators (Draeger) Tubes
- Film Badges or TLD badges (radiation)

e. Summary of Sampling Results (Attach additional pages if required.)

Appendix

STOP WORK ORDER

(This order must be submitted to the Project Health and Safety Officer within 24 hours after notice is issued.)

Order Issued by: _____
Name Signature Date

Project Name:_____ Project Number:_____

1. Describe work in detail._____

2. What corrective actions were taken?_____

I have reviewed this Stop Work Order. I understand the importance of following proper Safety Procedures on the Job. I certify that the above corrective action(s) has been implemented.

Implemented by:_____
Name Signature Date

Appendix D. Boring Logs

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. A

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	6608
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

☒	Truck	☐	Tripod
☐	ATV	☒	Geoprobe
☐	Track	☐	Air Track
☐	Skid	☐	other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 25' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 3" base material	
				<0.5	ML	medium stiff brown (7.5YR 4/3) SILT, no odor, massive, moist	
			45				
				<0.5			
5	☒	5'					737
				<0.5			
			43				
				<0.5			
10	☒	10'					740
				<0.5	ML	medium stiff light brown (7.5YR 6/4) SILT with fine sand, no odor, massive, moist	
			40				
				<0.5			
15	☒	15'			SP	medium dense light brown (7.5YR 6/4) poorly graded fine SAND, no odor, massive, moist	743
				<0.5	ML	medium stiff gray (10YR 5/1) SILT, faint diesel odor, massive, moist	
			42				
				<0.5			
20	☒	20'			SP	medium dense light brown (7.5YR 6/4) poorly graded fine SAND, faint diesel odor, massive, moist	746
				<0.5	ML	medium stiff gray (10YR 5/1) SILT, no odor, massive, moist	
			45				
				<0.5			
25	☒	25'					749
						END OF BORING No GW encountered	
						Total depth = 25.0 feet bgs	
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. A

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. B
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum

Boring Location

Boring Equipment	
Type	6600
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	Acetate

Rig Make & Model: ☐ Truck ☐ Tripod; ☐ ATV ☒ Geoprobe; ☐ Track ☐ Air Track; ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 25' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0					ML	3" asphalt, 3" base material medium stiff brown (7.5YR 4/3) SILT, no odor, massive, moist	
			43	<0.5			
				<0.5			
5							
			36	<0.5			
		DUP#8					
10	10'						827
			47	<0.5	ML	medium stiff light brown (7.5YR 6/4) SILT with fine sand, no odor, massive, moist	
				<0.5			
	15'				SP	medium dense light brown (7.5YR 6/4) poorly graded fine SAND, no odor, massive, moist	832
			48	<0.5	ML	medium stiff dark brown (7.5YR 3/2) SILT, no odor, massive, moist	
				<0.5	ML	Same as above, gray (10YR 5/1)	
20	20'				SP	medium dense light brown (7.5YR 6/4) poorly graded fine SAND, faint diesel odor, massive, moist	835
			47	<0.5	ML	medium stiff gray (10YR 5/1) SILT, faint diesel odor, massive, moist @23 no odor	
				<0.5			
25	25'					END OF BORING No GW encountered Total depth = 25 of feet bgs	838
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. B

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. C

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	6600
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	Acetate

Rig Make & Model

☒	Truck	☐	Tripod
☐	ATV	☒	Geoprobe
☐	Track	☐	Air Track
☐	Skid	☐	other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 25' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	ML	3" asphalt, 3" base material Medium stiff brown (7.5YR 4/3) SILT, no odor, massive, moist	
			40	<0.5	ML	same as above, with fine sand	
5					ML	same as above, without sand	
				<0.5			
			41	<0.5			
10	☒	10'					908
				<0.5			
			41	<0.5	SP	Medium dense light brown (7.5YR 6/4) poorly graded fine SAND, no odor, massive, moist	
15	☒	15'					911
				<0.5			
			38	<0.5	ML	medium stiff gray (10YR 5/1) SILT, no odor, massive, moist	
20	☒	20'					914
				<0.5			
			47	<0.5			
25	☒	25'					917
30						END OF BORING — No GW Encountered Total depth = 25.0 feet bgs	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-2
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ ATV ☐ Track ☐ Skid ☐ Tripod ☐ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass, cover medium stiff brown (7.5YR 4/2) SILT w/ gravel, no odor, dry	
				<0.5	ML	same as above, no gravel	
	30"			<0.5	ML	hardpan @ 1.8 to 2.2 feet bgs	8:44
	42"					hard light brown (7.5YR 6/4) SILT with occasional nodules, no odor, dry	8:46
5						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-2

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-2-E

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/13/18
DRILLER	Gilbert	DATE FINISHED	8/13/18

Elevation ft | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover Medium stiff brown (7.5YR 4/2) SILT, no odor, moist	
	18"		↓	<0.5			939
	30"			<0.5			943
	42"						948
						END OF BORING No GW encountered Total depth = 35 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-2-E

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-2-N/4-S

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type		☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)		☐ ATV ☐ Geoprobe	
Length Sleeve (in)		☐ Track ☐ Air Track	
Type Sleeve		☐ Skid ☐ other	

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover Medium stiff brown (7.5YR4/2) SILT, no odor, moist	
	18"	18"		<0.5			920
	30"	30"		<0.5			925
	42"	42"					928
						END OF BORING Total depth = 3.5 feet bgs N_2 GW encountered	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-2-N/4-S

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-2-S

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type
Ouside Dia. (in.)
Length Sleeve (in)
Type Sleeve

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover medium stiff brown (7.5YR4/2) SILT, no odor, moist	
	X	18"		<0.5			808
	X	30"		<0.5			813
	X	42"			SP	medium dense brown (7.5YR4/2) poorly graded fine SAND, nonplastic, no odor, moist	814
5						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft)
Rock Cored (Linear ft)
Number of Samples

BORING NO. SSI-2-S

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-2-W

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover Medium stiff brown (7.5YR4/2) SILT with gravel, no odor, dry	
	18"			<0.5		hard pan @ 1.0 ft bgs	905
	30"			<0.5		hard light brown SILT (7.5YR 6/4) with occasional nodules, no odor, dry	907
	42"		↓			END OF BORING	916
						No GW encountered	
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-2-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-3

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/19
DRILLER	Gilbert	DATE FINISHED	6/14/19

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type		☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)		☐ ATV ☐ Geoprobe	
Length Sleeve (in)		☐ Track ☐ Air Track	
Type Sleeve		☐ Skid ☐ other	

Drilling Notes: Hand augered to 42' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	LOS	ML	grass cover medium stiff dark brown (7.5YR3/2) SILT, massive, no odor, moist	
	XXX	36"/DUP22		LOS			1112
	XXX	42"/DUP23		LOS			1115
						END OF BORING No GW encountered Total depth = 35 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-3

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-3-E/4-W
Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	6/13/18
DATE FINISHED	6/13/18

Elevation	ft	Datum	Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0					ML	grass cover	
	18"		HA	<0.5		Medium stiff brown (7.5YR4/2) SILT, no odor, moist	1251
	30"			<0.5			1253
	42"			<0.5			1256
						END OF BORING No GW encountered	
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft) _____
Rock Cored (Linear ft) _____
Number of Samples _____

BORING NO. SSI-3-E/4-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-3-N
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/18
DRILLER	Gilbert	DATE FINISHED	6/14/18

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ Tripod ☐ ATV ☐ Geoprobe ☐ Track ☐ Air Track ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		18"	HA	<0.5	ML	medium stiff brown (7.5YR4/2) SILT with fine sand and gravel, no odor, moist	1055
		30"		<0.5			1100
		42"		<0.5	ML	medium stiff dark brown (7.5YR3/2) SILT, no odor, moist	1102
						END OF BORING No GW encountered	
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-3-N

Field Tests: Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-3-N-C

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/17/19
DRILLER	Gilbert	DATE FINISHED	7/17/19

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type	Geoprobe	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)	3.25	☐ ATV ☒ Geoprobe	
Length Sleeve (in)	48	☒ Track ☐ Air Track	
Type Sleeve	4 Acetate	☐ Skid ☐ other	

Drilling Notes: Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	ML	grass cover medium stiff brown (7.5YR4/2) SILT with Sand, no odor, moist	
	19"	DUP42	41				905
	30"	DUP43		<0.5			906
	42"						907
						END OF BORING, No GW encountered Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-3-N-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-3-N-F
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/17/18
DRILLER	Gilbert / Marco	DATE FINISHED	8/10/18

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	6610DT / 6620
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

☒ Truck	☐ Tripod
☐ ATV	☒ Geoprobe
☒ Track	☐ Air Track
☐ Skid	☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 42" bgs on 7/17 with track rig. Drilled to 120" bgs on 8/10.

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	☒	18"		<0.5	ML	medium stiff brown (7.5YR 4/2) SILT with sand, no odor, moist	952
	☒	30"	42	<0.5			
	☒	42"	—		ML	medium stiff dark brown (7.5YR 3/2) SILT, massive, no odor, moist	953
				<0.5			954
5	☒	60"					1336
			46	<0.5			
	☒	90"	—				1338
			22	<0.5			
10	☒	120"	—			END OF BORING No GW encountered Total depth = 10.0 feet bgs	1340
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-3-N-F

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-3-S

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/19/18
DRILLER	Gilbert	DATE FINISHED	6/19/18

Elevation ft. Datum	Boring Location		
Boring Equipment	Rig Make & Model	Backfill Material	Drilling Notes:
Type	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 42" bgs
Ouside Dia. (in.)	☐ ATV ☐ Geoprobe		
Length Sleeve (in)	☐ Track ☐ Air Track		
Type Sleeve	☐ Skid ☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	18"		HA	<0.5	ML	medium stiff dark brown (7.5YR 3/2) SILT, massive, no odor, moist	1127
	30"			<0.5			1126
	42"		↓	<0.5			1123
5						END OF BORING. No GW encountered. Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-3-S

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-3-W

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	5" asphalt, 6" base material Medium stiff brown (7.5YR 4/2) SILT, no odor, moist	
	18"			<0.5			1430
	30"			<0.5	SP	medium dense brown (7.5YR 4/2) poorly graded Fine sand no odor moist	1432
	42"		↓	<0.5	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, moist	1434
5						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-3-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-4
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type		☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)		☐ ATV ☐ Geoprobe	
Length Sleeve (in)		☐ Track ☐ Air Track	
Type Sleeve		☐ Skid ☐ other	

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover medium stiff brown (7.5YR4/2) SILT, no odor, moist	
	~~3'~~	30"/DUP2	↓	<0.5			1240
	~~3.5'~~	42"/DUP3	↓	<0.5			1244
						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-4

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-4-E/5-W

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	6"	6"/DUP1	HA	0.0	ML	medium stiff brown (7.5YR4/2) SILT, no odor, moist	1220
	18"	18"		0.0			1222
	30"	30"		0.0			1226
	42"	42"	↓				1228
						END OF BORING No GW encountered	
5						Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-4-E/5-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-4-N

Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	6/13/18
DATE FINISHED	6/13/18

Elevation ft	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type		☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)		☐ ATV ☐ Geoprobe	
Length Sleeve (in)		☐ Track ☐ Air Track	
Type Sleeve		☐ Skid ☐ other	

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover Medium dense brown (7.5YR 4/2) SILT, no odor, moist	
	18"	18"		<0.5			1305
	30"	30"		<0.5			1308
	42"	42"	↓				1310
						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft)
Rock Cored (Linear ft)
Number of Samples

BORING NO. SSI-4-N

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-5-E
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	1"		HA	<0.5	ML	grass cover	1034
	6"			<0.5		medium stiff brown (7.5YR4/2) SILT, no odor, moist	1035
	24"		↓			END OF BORING No GW encountered	1040
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-5-E

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-5-N

Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	6/13/18
DATE FINISHED	6/13/18

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type		☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)		☐ ATV ☐ Geoprobe	
Length Sleeve (in)		☐ Track ☐ Air Track	
Type Sleeve		☐ Skid ☐ other	

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	ML	3" light reddish brown (5YR6/3) silty fine SAND - fill - medium stiff grayish brown (10YR5/2) SILT with fine sand and gravel, massive, no odor, moist	1103
		24'	↓			END OF BORING, No GW encountered	1104
						Total depth = 2.0 feet bgs	1111
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-5-N

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-S-N-A
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/12/18
DRILLER	Gilbert	DATE FINISHED	7/12/18

Elevation ft. | Datum | Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	Geoprobe DT	☐ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 30" bgs
Ouside Dia. (in.)	3.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☒ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	0-6"	6"		<0.5	ML	3" light reddish brown (5YR 6/3) silty fine SAND - FILL	1411
	6"-18"	18"	25	<0.5		medium stiff grayish brown (10YR 5/2) SILT with fine sand and gravel, massive, no odor, moist	1413
	18"-30"	30"				END OF BORING No GW encountered	1415
5						Total depth = 2.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-S-N-A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-5-N-B
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/12/18
DRILLER	Gilbert	DATE FINISHED	7/12/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	Geoprobe DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ ATV ☒ Geoprobe ☐ Track ☐ Air Track ☐ Skid ☐ other ☐ Tripod

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 30" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"		<0.5	ML	3" light reddish brown (5YR6/3) silty fine SAND - FILL	1404
		18"	27	<0.5		medium stiff grayish brown (10YR5/2) SILT with fine sand and gravel, massive, no odor, moist	1406
		30"	—			END OF BORING No GW encountered	1409
5						Total depth = 2.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-5-N-B

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-5-N-C

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	6400DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 30" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"				grass cover	
		18"	27	<0.5	ML	medium stiff grayish brown (10YR5/2) SILT with fine sand and gravel, massive, no odor, moist	918
		30"		<0.5			920
							922
						END OF BORING	
						No GW encountered	
						Total depth = 2.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-5-N-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-5-N-D

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	3/12/18
DRILLER	Gilbert	DATE FINISHED	3/12/18

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type	6610 DT	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)	2.25	☐ ATV ☒ Geoprobe	
Length Sleeve (in)	48	☒ Track ☐ Air Track	
Type Sleeve	acetate	☐ Skid ☐ other	

Drilling Notes: Drilled to 30" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"		<0.5	ML	3" light reddish brown (5YR6/3) silty fine SAND - fill	1418
		18"	27	<0.5		Medium stiff grayish brown (10YR5/2) SILT with fine sand and gravel, massive, no odor, moist	1420
		30"				END OF BORING No GW encountered	1422
						Total depth = 2.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.); Rock Cored (Linear ft.); Number of Samples

BORING NO. SSI-5-N-D

Field Tests: Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-5-N-F
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/12/18
DRILLER	Gilbert	DATE FINISHED	7/12/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	6610 DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

☐ Truck	☐ Tripod		
☐ ATV	☒ Geoprobe		
☐ Track	☐ Air Track		
☐ Skid	☐ other		

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 30' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"				4" light reddish brown (5YR6/3) silty fine SAND - fill	
		18"	29	<0.5	ML	medium stiff grayish brown (10YR5/2) SILT	1355
		30"	—	<0.5		with fine sand and gravel, massive, no odor, moist	1357
						END OF BORING No GW encountered	1359
						Total depth = 2.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-5-N-F

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-5-N-G
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	Geoprobe DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

☐ Truck	☐ Tripod		
☐ ATV	☒ Geoprobe		
☒ Track	☐ Air Track		
☐ Skid	☐ other		

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 30" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"		<0.5	ML	grass cover	
		18"	26	<0.5		Medium stiff grayish brown (10YR 5/2) SILT with fine sand and gravel, massive, no odor, moist	924
		30"					925
						END OF BORING No GW encountered	926
						Total depth = 2.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-5-N-G

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-5-S
Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	6/13/18
DATE FINISHED	6/13/18

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type		☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)		☐ ATV ☐ Geoprobe	
Length Sleeve (in)		☐ Track ☐ Air Track	
Type Sleeve		☐ Skid ☐ other	

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0							
		6"	HA	<0.5	ML	grass cover medium stiff brown (7.5YR 4/2) SILT, no odor, moist	1019
		24"	↓	<0.5			1019
						END OF BORING No GW encountered Total depth = 2.0 feet bgs	1022
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-5-S

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-6

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/19
DRILLER	Gilbert	DATE FINISHED	6/14/19

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	4" light reddish brown (5YR6/3) silty fine SAND - FILL	
				<0.5		medium stiff brown (7.5YR 5/2) SILT with gravel, massive, no odor, moist	
	XX	30" DUP#1		<0.5	ML	same as above, without gravel	959
	XX	42" DUP#2				END OF BORING No GW encountered	1001
5						Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-6

Field Tests Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-6-E
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/18
DRILLER	Gilbert	DATE FINISHED	6/14/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ Tripod ☐ ATV ☐ Geoprobe ☐ Track ☐ Air Track ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						4" light reddish brown (5YR6/3) silty fine SAND - FILL	
			HA	LOS	ML	medium stiff brown (7.5YR5/2) SILT with gravel, massive, no odor, moist	
		T@ 18"		LOS			1008
		30"		LOS	ML	Same as above, without gravel	1010
		42"				END OF BORING No GW encountered	1013
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-6-E

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-6-N/10-5

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/19/18
DRILLER	Gilbert	DATE FINISHED	6/19/18

Elevation ft Datum

Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 60" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	SM	4" light reddish brown (5YR6/3) silty fine SAND - FILL	901
		18"		<0.5		medium dense very pale brown (10YR 7/4) silty fine SAND, no odor, moist - artificial fill	903
		36"		<0.5	SM	same as above, with gravel - artificial fill	905
		48"		<0.5			907
5		60"	↓	<0.5	ML	medium stiff brown (7.5YR 5/2) SILT, no odor, moist	910
						END OF BORING. No GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-6-N/10-5

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-6-S
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/19
DRILLER	Gilbert	DATE FINISHED	6/14/19

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						4" light reddish brown (5YR 6/3) silty fine SAND - fill	
		18"	HA	<0.5	ML	medium stiff brown (7.5YR 5/2) SILT with gravel, massive, no odor, moist	1020
		30"		<0.5		same as above, no gravel	1024
		42"		<0.5	ML	END OF BORING No GW encountered	1025
5						Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-6-S

Field Tests Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-6-W

Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	6/14/19
DATE FINISHED	6/14/19

Elevation	ft. Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type		☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)		☐ ATV ☐ Geoprobe	
Length Sleeve (in)		☐ Track ☐ Air Track	
Type Sleeve		☐ Skid ☐ other	

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						4" light reddish brown (5YR6/3) Silty fine SAND) - FILL	
	18"		H,A	LOS	ML	Medium stiff brown (7.5YR5/2) SILT, no odor, moist	945
	30"			LOS			947
	42"			LOS			949
						END OF BORING No GW encountered	
5						Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-6-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32 7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	7/17/18

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type	6610DT	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)	2.35	☐ ATV ☒ Geoprobe	
Length Sleeve (in)	48	☒ Track ☐ Air Track	
Type Sleeve	acetate	☐ Skid ☐ other	

Drilling Notes: Hand augered to 3.5' bgs 6/13. Drilling to 10' bgs on 7/17.

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover medium stiff brown (7.5YR 4/2) SILT with gravel, occasional brick and concrete pieces, no odor, moist -artificial fill-	
		30"		<0.5			1329
		42"					1331
				<0.5			
5		60" D-1-44	45			medium stiff dark brown (7.5YR 3/2) SILT, massive, no odor, moist	1051
		90"		<0.5			1053
		D-1-45 120"	21	<0.5			1055
10						END OF BORING No GW encountered Total depth = 10.0 feet bgs	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-7

Field Tests Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-E
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/19
DRILLER	Gilbert	DATE FINISHED	6/14/19

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						4" light reddish brown (5YR6/3) silty fine SAND - FILL	
	X	18"	HA	<0.5	ML	medium stiff brown (7.5YR5/2) SILT, no odor, moist	934
	X	36"		<0.5			937
	X	42"		<0.5		END OF BORING No GW encountered	940
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft) _____
Rock Cored (Linear ft) _____
Number of Samples _____

BORING NO. SSI-7-E

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-N

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation	ft.	Datum	Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	18"		HA	<0.5	ML	Medium dense brown (7.5YR4/2) SILT, no odor, moist	1339
	30"			<0.5			1340
	42"			<0.5			1342
						END OF BORING No GW encountered	
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-7-N

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-N-A
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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	Geoprobe
Ouside Dia. (in.)	2.13
Length Sleeve (in)	4
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ Tripod ☐ ATV ☒ Geoprobe ☒ Track ☐ Air Track ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	18"		38	0.5	ML	Medium stiff grayish brown (10yR 5/2) SILT,	1404
	30"			0.5		massive, micaceous, no odor, moist	1405
	42"			0.5			1406
						END OF BORING No GW encountered. Total depth = 35 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-7-N-A

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-N-B
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	Geoprobe DT
Ouside Dia. (in.)	3.25
Length Sleeve (In)	48
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ Tripod ☐ ATV ☒ Geoprobe ☒ Track ☐ Air Track ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	18"			0.5	ML	grass cover medium stiff grayish brown (10YR5/2) SILT, massive, micaceous, no odor, moist	1353
	30"		37	0.5			1354
	42"			0.5			1355
						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-7-N-B

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-N-C
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft | Datum | Boring Location

Boring Equipment

Type	Geoprobe
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	Acetate

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	X	18"		<0.5	ML	Medium stiff grayish brown (10YR5/2) SILT, massive, micaceous, no odor, moist	
	X	30"	38	<0.5			
	X	42"		<0.5		END OF BORING No GW encountered Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-7-N-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-N-1
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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/15
DRILLER	Gilbert	DATE FINISHED	7/13/15

Elevation ft. Datum

Boring Equipment

Type	Geoprobe DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						GRASS Cover	
	18"			0.0	ML	Medium stiff grayish brown (10YR 5/2) SILT	1410
	30"	36		0.0		Massive, micaceous, no odor, moist	1412
	42"					END OF BORING No GW encountered	1414
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-7-N-1

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-N-F

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum

Boring Equipment

Type	6610DL
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Drilled to 3.5 ft bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		18"		<0.5	ML	medium stiff grayish brown (10YR 5/2) SILT, massive, micaceous, no odor, moist	1349
		30"	39	<0.5			1350
		42"		<0.5			1352
						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-7-N-F

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-N-G
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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum | Boring Location

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	18"			<0.5	ML	medium stiff grayish brown (10YR 5/2) SILT, massive, micaceous, no odor, moist	1400
	30"		36	<0.5			1401
	42"		—	<0.5			1402
						END OF BORING — No GW encountered	
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-7-N-G

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-S
Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	6/13/18
DATE FINISHED	6/13/18

Elevation	ft.	Datum	Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ ATV ☐ Track ☐ Skid ☐ Tripod ☐ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						Grass cover	
	18"		HA	<0.5	ML	medium dense brown (7.5YR 4/2) SILT, no odor, moist	1314
	30"			<0.5			1316
	42"			<0.5			1318
5						END OF BORING — No GW encountered; Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-7-S

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-7-W

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (In.)	
Length Sleeve (In)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	0.0	ML	grass cover Medium stiff brown (7.5YR 4/2) SILT with sand, no odor, moist	
	1'			0.0			1347
	3.0'			0.0			1350
	42"		↓				1352
						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-7-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/19
DRILLER	Gilbert	DATE FINISHED	6/14/19

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type		☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)		☐ ATV ☐ Geoprobe	
Length Sleeve (in)		☐ Track ☐ Air Track	
Type Sleeve		☐ Skid ☐ other	

Drilling Notes: Hand augered to 42"

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	LOS	ML	grass cover medium stiff brown (7.5YR4/2) SILT, no odor, moist	
	XX	30"/DUP-20	↓	LOS			
	XX	42"/DUP-21		LOS			1037
					SM	medium dense brown (7.5YR4/2) silty SAND, no odor, moist	1040
5						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-8

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-E

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 42" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover	
	18"			<0.5		Medium stiff brown (7.5YR4/2) SILT with sand, no odor, moist	1414
	30"			<0.5			1416
	42"					END OF BORING No GW encountered	1418
5						Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____

Rock Cored (Linear ft.) _____

Number of Samples _____

BORING NO. SSI-8-E

Field Tests

Dilatancy: R - Rapid S - Slow N - None

Toughness: L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High

Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-E-A
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/17/18
DRILLER	Gilbert	DATE FINISHED	7/17/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	Geoprobe DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- ☐ Truck ☐ Tripod
- ☐ ATV ☒ Geoprobe
- ☒ Track ☐ Air Track
- ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
				0.0	ML	Medium stiff brown (7.5YR 4/2) SILT with sand, occasional concrete pieces, no odor, moist - artificial fill	
	18"			0.0			812
	30"		39	0.0			813
	42"						814
						END OF BORING - No GW encountered	
5						Total Depth = 3.5 ft bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. SSI-8-E-A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-E-B
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/17/18
DRILLER	Gilbert	DATE FINISHED	7/17/18

Elevation ft | Datum | Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	6610DT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 42" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☒ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	ML	grass cover medium stiff brown (7.5YR 4/2) SILT w/sand, occasional gravel/concrete pieces, no odor, moist - artificial fill	
		18" Dup4b	40				759
		30"		<0.5			800
		Dup41 42"					801
						END OF BORING - No GW encountered Total depth = 3.5 ft bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-8-E-B

Field Tests Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-E-C

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/17/18
DRILLER	Gilbert	DATE FINISHED	7/17/18

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	6610XT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 42" bgs
Ouside Dia. (in.)	3.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☒ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	18"			<0.5	ML	Medium stiff brown (7.5YR 4/2) SILT w/ sand, occasional concrete pieces, no odor, moist -artificial fill-	753
	30"		38	<0.5			754
	42"			<0.5	ML	medium stiff yellowish brown (10YR 5/4) SILT, massive, no odor, low moisture	755
5						END OF BORING - No GW encountered Total depth 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-8-E-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-E-1

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/17/19
DRILLER	Gilbert	DATE FINISHED	7/17/19

Elevation ft. Datum

Boring Location

Boring Equipment

Type	6610 DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	⊠	18"	37	<0.5	ML	medium stiff brown (7.5YR 4/2) SILT with sand, occasional concrete pieces, no odor, moist, -artificial fill-	819
	⊠	30"		<0.5			820
	⊠	42"				END OF BORING - No GW encountered	824
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-8-E-1

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-E-F
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/17/18
DRILLER	Gilbert	DATE FINISHED	7/17/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	Geoprobe
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ ATV ☒ Track ☐ Skid ☐ Tripod ☒ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 42" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	18"			0.5	ML	medium stiff brown (7.5YR4/2) SILT with sand, occ. gravel, no odor, moist – artificial fill –	805
	30"	40		0.5			
	42"			0.5	ML	medium stiff dark brown (7.5YR3/2) SILT, massive, no odor, moist – alluvium –	806
							807
5						END OF BORING NO GW encountered	
						Total depth = 3.5 ft bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-8-E-F

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-N/15-S

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand auger to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	ML	grass cover medium stiff brown (7.5YR 5/2) SILT, micaceous, no odor, moist	1444
		18"		<0.5			1446
		36"		<0.5			1448
		48"		<0.5	ML	same as above, with fine sand	1450
5		60"	↓	<0.5	ML	same as above, without sand	1453
						END OF BORING No GW encountered Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-8-N/15-S

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-S

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/15
DRILLER	Gilbert	DATE FINISHED	6/11/15

Elevation ft. Datum	Boring Location		
Boring Equipment	**Rig Make & Model**	**Backfill Material**	**Drilling Notes:**
Type	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 42" bgs
Ouside Dia. (in.)	☐ ATV ☐ Geoprobe		
Length Sleeve (in)	☐ Track ☐ Air Track		
Type Sleeve	☐ Skid ☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	18"		HA	<0.5	ML	Medium stiff dark brown (7.5YR3/2) SILT, no odor, moist	1046
	30"			<0.5			1048
	42"			<0.5			1050
5						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-8-S

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-8-W
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 42" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	1.5" asphalt, 6" base material	
						medium stiff brown (7.5YR 4/2) SILT, no odor, moist	
	18"			<0.5			1413
	30"			<0.5			1415
	42"			<0.5		END OF BORING No GW encountered	1417
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-8-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-10
Page 1 of 1

PROJECT David Starr Jordan Senior HS SSI
LOCATION 3265 E. 103rd St, LA, CA 90002
CLIENT LAUSD
CONTRACTOR Interphase Environmental
DRILLER Gilbert

TPC FILE NO. LASD1-32.7
FIELD REP. M. Watson
DATE STARTED 6/11/18
DATE FINISHED 6/11/18

Elevation ft. Datum
Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips	Hand augered
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				0.0	SM	12" light reddish brown (5YR 5/3) silty sand	
						medium dense brown (7.5YR 5/2) silty sand, no odor, low moisture	
2				0.0			
				0.0			
	X	48"					750
4				0.0	SP	medium dense pale brown (10YR 6/3) poorly graded fine sand, no odor, nonplastic, moist – native alluvium	753
	X	60"				END OF BORING. Total depth 5 feet bgs, No GW	
6							
8							
10							
12							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. SSI-10

Field Tests Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger/Geoprobe

BORING NO. SSI-12
Page 1 of 1

PROJECT: David Starr Jordan Senior HS SSI
LOCATION: 2265 E. 103rd St, LA, CA 90002
CLIENT: LAUSD
CONTRACTOR: Interphase Environmental
DRILLER: Gilbert

PW FILE NO. LASD-1-32.7
FIELD REP. M. Watson
DATE STARTED 6/11/19
DATE FINISHED 7/13/19

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	6610
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	Acetate

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☒ Geoprobe
☒ Track ☐ Air Track
☐ Dolly ☐ other

Backfill Material: Hydrated bentonite chips

Drilling Notes: 6/11 hand augered to 5'
7/13 drilled to 12.5'

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	SM	6" light reddish brown (5YR5/3) silty sand	
			42	<0.5		medium dense brown (7.5YR5/2) silty medium to fine sand, no odor, low moisture	
	☒	48" DP1			ML		820
5	☒	60" DP2		<0.5		medium stiff gray (7.5YR5/1) silt with sand, no odor, low moisture	822
			46	<0.5			
	☒	90"					1108
				<0.5			
10	☒	120"					1110
			47	<0.5			
	☒	150"					1112
						END of BORING Total depth 12.5 feet bgs, No GW	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-12

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-12-A
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum

Boring Equipment

Type	Geoprobe 6610DT
Ouside Dia. (in.)	2.75
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

☐	Truck	☐	Tripod
☐	ATV	☒	Geoprobe
☒	Track	☐	Air Track
☐	Skid	☐	other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	ML	6" light reddish brown (5YR6/3) silty fine SAND - FILL	
			42			Medium stiff grayish brown (10YR5/2) SILT, massive, micaceous, No odor, moist	
				<0.5			
		48"					1054
5		60"					1056
			44	<0.5			
		90"					1058
				<0.5			
			20	<0.5			
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	1100
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft) _____
Rock Cored (Linear ft) _____
Number of Samples _____

BORING NO. SSI-12-A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-12-B
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation	ft.	Datum	Boring Location
Boring Equipment		Rig Make & Model	Backfill Material
Type	6610 DT	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)	2.25	☐ ATV ☒ Geoprobe	
Length Sleeve (in)	48	☒ Track ☐ Air Track	
Type Sleeve	acetate	☐ Skid ☐ other	

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	SM	6" light reddish brown (5YR 6/3) silty fine SAND - FILL	
			44	<0.5		medium dense brown (7.5YR 5/2) silty fine SAND with gravel, massive, no odor, moist -artificial fill-	
	48"				ML	medium stiff brown (7.5YR 5/2) SILT with sand and gravel, massive, no odor, moist -artificial fill-	1038
5	60"						1040
			46	<0.5			
	90"			<0.5			1042
			21	<0.5	ML	medium stiff grayish brown (10YR 5/2) SILT, massive, micaceous, no odor, moist	
10	120"					END OF BORING No GW encountered	1044
						Total depth = 10.0 feet bgs	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-12-B

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-12-C
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/19
DRILLER	Gilbert	DATE FINISHED	7/13/19

Elevation ft. Datum

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	2.75
Length Sleeve (in)	4
Type Sleeve	acetate

Boring Location

Rig Make & Model

☐ Truck	☐ Tripod		
☐ ATV	☒ Geoprobe		
☒ Track	☐ Air Track		
☐ Skid	☐ other		

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						6" light reddish brown (5YR 6/3) silty fine SAND - FILL	
				<0.5	SM	medium dense brown (7.5YR 5/2) silty fine SAND with gravel, massive, no odor, moist -artificial fill-	
			46				
				<0.5	ML	medium stiff brown (7.5YR 5/2) SILT with sand and gravel, massive, no odor, moist -artificial fill-	
		48"					1030
5		60"					1032
				<0.5			
			47				
		90"			ML	medium stiff grayish brown (10YR 5/2) SILT, massive, micaceous, no odor, moist	1034
				<0.5			
10		120"	22				1036
						END OF BORING No GW encountered	
						Total depth = 10.0 feet bgs	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-12-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-12-S/13-S
Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	6/14/19
DATE FINISHED	6/14/19

Elevation	ft.	Datum	Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ ATV ☐ Track ☐ Skid ☐ Tripod ☐ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						4" light reddish brown (5YR 6/3) silty fine SAND - fill -	
		18"	HA	<0.5	SM	medium dense brown (7.5YR 5/2) silty fine SAND,	920
				<0.5		no odor, moist	
		36"		<0.5			922
		48"		<0.5	SP	medium dense brown (7.5YR 5/2) poorly graded fine SAND, moist	924
5		60"		<0.5	SM	medium dense brown (7.5YR 5/2) silty fine SAND, no odor, moist	925
						END OF BORING No GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-12-S/13-S

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-12-S/13-5A

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert / Marla	DATE FINISHED	8/10/18

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes
Type	6610 I/16.00	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 36" bgs with track rig on 7/13. Drilled to 120" bgs on 8/10.
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☒ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	18"	18" Dup 32 Dup 33 36"	32	<0.5	SM	6" light reddish brown (5YR 6/3) silty fine SAND - fill - Medium dense brown (7.5YR 5/2) silty fine SAND, massive, no odor, moist - artificial fill	952 954
				<0.5	SP	Medium dense brown (7.5YR 5/2) poorly graded fine SAND, massive, no odor, moist	
5	60"		45	<0.5	SM	Medium dense brown (7.5YR 5/2) silty fine SAND, massive, no odor, moist	1054
	90"				ML	Medium stiff grayish brown (10YR 5/2) SILT, massive, micaceous, no odor, moist	1056
			36	<0.5			
10	120"					END OF BORING No GW encountered Total depth = 10.0 feet bgs	1058
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-12-S/13-5A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-12-5/13-5-B

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type	6610DT	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)	2.25	☐ ATV ☒ Geoprobe	
Length Sleeve (in)	48	☒ Track ☐ Air Track	
Type Sleeve	Acetate	☐ Skid ☐ other	

Drilling Notes: Drilled to 36" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						6" Light reddish brown (5YR6/3) Silty Fine SAND - Fill	
		18'	33	<0.5	ML	Medium stiff brown (10YR5/3) SILT with fine sand, massive	1002
		36'		<0.5		no odor, Moist	1003
						(END OF BORING No GW encountered Total depth = 3.0 ft bgs	
5							
10							
15							
20							
25							
30							

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID	
O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram	
	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary	
Overburden (Linear ft.)	
Rock Cored (Linear ft.)	
Number of Samples	
BORING NO.	SSI-12-5/13-5-B

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-12-S/13-S-C
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/13
DRILLER	Gilbert	DATE FINISHED	7/13/13

Elevation	ft	Datum	Boring Location

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 36" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						6" light reddish brown (5YR 6/3) silty fine SAND - fill	
				0.5	ML	medium stiff brown (10yR 5/3) SILT with fine sand,	920
	18"		32			massive, no odor, moist	
	36"			0.5			922
						END OF BORING No GW encountered	
						Total depth = 3.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft) _____
Rock Cored (Linear ft) _____
Number of Samples _____

BORING NO. SSI-12-S/13-S-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-12-S/13-S-D
Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	7/13/19
DATE FINISHED	7/13/19

Elevation	ft	Datum	Boring Location

Boring Equipment

Type	Geoprobe
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ Tripod ☐ ATV ☒ Geoprobe ☒ Track ☐ Air Track ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 36" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						6" light reddish brown (5YR6/3) silty fine SAND - fill -	
	18"		34	0.0	ML	medium stiff brown (10YR5/3) SILT with fine sand, massive, no odor, Moist	948
	36"			0.0			950
						END OF BORING No GW encountered	
5						Total depth = 3.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft) _____
Rock Cored (Linear ft) _____
Number of Samples _____

BORING NO. SSI-12-S/13-S-D

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-13

Page 1 of 1

PROJECT David Starr Jordan Senior HS SSI
LOCATION 2265 E. 103rd St LA CA 90002
CLIENT LAUSD
CONTRACTOR Interphase Environmental
DRILLER Gilbert

TPC FILE NO. LASD1-32-7
FIELD REP. M. Watson
DATE STARTED 6/1/18
DATE FINISHED 6/1/18

Elevation ft. Datum

Boring Location

Boring Equipment	
Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ ATV ☐ Track ☐ Skid ☐ Tripod ☐ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips

Drilling Notes: Hand augered

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	ML	6" light reddish brown (5YR5/3) silty sand Medium stiff brown (7.5YR5/2) silt with sand, no odor, low moisture	
2				<0.5			
				<0.5			
4	X	48"					840
				<0.5			
	X	60"			SM	Medium dense brown (10YR5/3) silty fine sand, no odor, low moisture - native alluvium - END OF BORING Total depth = 5 feet bgs, No GW	843
6							
8							
10							
12							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-13

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-13-W
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/3/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

☐ Truck		☒ Tripod	
☐ ATV		☒ Geoprobe	
☒ Track		☐ Air Track	
☐ Skid		☐ other	

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 12.5' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			40	<0.5	SM	6" light reddish brown (5YR 6/3) silty fine SAND - fill Medium dense brown (7.5YR 5/2) silty fine SAND with gravel, massive, no odor, moist	
				<0.5			
5			43	<0.5	ML	medium stiff grayish brown (10YR 5/2) SILT, massive, micaceous, no odor, moist	
		90"		<0.5			1315
10		120"	47	<0.5			1317
				<0.5			
		150"				END OF BORING No GW encountered Total depth = 12.5 feet bgs	1319
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-13-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-13-W-A

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft.	Datum	Boring Location			
Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	Geoprobe DT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 10.0' bgs
Ouside Dia. (in.)	2.25	☐ ATV	☐ Geoprobe		
Length Sleeve (in)	48	☐ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						6" light reddish brown (5YR 6/3) silty SAND - fill	
		18"		<0.5	SM	medium dense brown (7.5YR 5/2) silty fine SAND with gravel, massive, no odor, moist	1248
		36"	46	<0.5			1250
5		60"		<0.5	ML	medium stiff gray/sl brown (10YR 5/2) SILT, massive, no odor, moist	1252
		90"	47	<0.5			1254
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	1256
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-13-W-A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-13-W-B
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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 12.5 ftbgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						6" light reddish brown (5YR6/3) silty fine SAND - Fill	
		15"	43	<0.5	SM	medium dense brown (7.5YR5/2) silty fine SAND, massive, no odor, moist	1224
		36"		<0.5			1226
				<0.5			
		60"			ML	medium stiff grayish brown SILT (10YR5/2), massive, micaceous, no odor, moist	1228
5			45	<0.5			
		90"					1230
				<0.5			
10		120"	46				1232
				<0.5			
		150"					1234
						END OF BORING No GW encountered	
						Total depth = 12.5 ftbgs	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-13-W-B

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-13-W-C
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft | Datum | Boring Location

Boring Equipment

Type	6610 DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- ☐ Truck ☐ Tripod
- ☐ ATV ☒ Geoprobe
- ☒ Track ☐ Air Track
- ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						6" light reddish brown (5YR6/3) silty, fine SAND - FILL	
		18"		<0.5	SM	medium dense brown (7.5YR5/2) silty, fine SAND with gravel, massive, no odor, moist - artificial fill	1208
			44	<0.5			
		36"		<0.5			1210
5		60"			ML	medium stiff grayish brown (10YR 5/2) SILT, massive, micaceous, no odor, moist	1212
			45	<0.5			
		90"					1214
			23	<0.5			
10		120"				END OF BORING No GW encountered	1216
						Total depth = 10.0 feet bgs	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-13-W-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-13-W-D
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/17/18
DRILLER	Gilbert	DATE FINISHED	7/17/18

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	2.5
Length Sleeve (in)	48
Type Sleeve	Acetate

Rig Make & Model: ☐ Truck ☐ ATV ☒ Track ☐ Skid ☐ Tripod ☒ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 10' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						6" Light reddish brown (5YR 6/3) silty fine SAND) - FILL	
	18"			<0.5	SM	medium dense brown (7.5YR 5/2) silty fine SAND, massive, no odor, moist	1258
	36"	46					
				<0.5	ML	medium stiff grayish brown (10YR 5/2) SILT, massive, no odor, moist	1300
5	60"						1301
				<0.5			
	90"	47					1303
				<0.5			
10	120"					END OF BORING No GW encountered Total depth = 10.0 feet bgs	1305
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-13-W-D

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-13-W-F
Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	7/13/18
DATE FINISHED	7/13/18

Elevation ft.	Datum	Boring Location	
Boring Equipment		Rig Make & Model	Backfill Material
Type	6610DT	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand
Ouside Dia. (in.)	3.25	☐ ATV ☒ Geoprobe	
Length Sleeve (in)	48	☒ Track ☐ Air Track	
Type Sleeve	acetate	☐ Skid ☐ other	

Drilling Notes: Drilled to 10' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0							
	1.5	18"		<0.5	SM	6" light reddish brown (5YR 6/3) silty fine SAND - FILL	
			42	<0.5		medium dense brown (7.5YR 5/2) silty, fine SAND,	1238
	3	36"		<0.5		massive, no odor, moist	1240
	5	60"			ML	medium stiff grayish brown (10YR 5/2) SILT,	1242
5			45	<0.5		massive, no odor, moist	
	7.5	90"		<0.5			1244
			23	<0.5			
	10	120"					1246
10						END OF BORING No GW encountered	
						Total depth = 10.0 feet bgs	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-13-W-F

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/18
DRILLER	Gilbert	DATE FINISHED	7/16/18

Elevation ft. Datum — Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes
Type	6610 DT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 60" bgs on 6/11. Drilled to 150" bgs on 7/16.
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	4	☒ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0			HA	<0.5	ML	grass cover Medium stiff brown (7.5YR5/2) SILT, micaceous, no odor, moist	
				<0.5			
	4	48"		<0.5			930
5	5	60"	↓	<0.5			933
				<0.5			
	8	90"	44				1156
				<0.5			
10	10	120"					1158
			32	<0.5			
	12.5	150"				END OF BORING No GW encountered Total depth 12.5 feet bgs	1200
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-14

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-A
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/19
DRILLER	Gilbert	DATE FINISHED	7/16/19

Elevation ft. Datum — Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6610DT	☐ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 120" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☒ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	ML	grass cover medium stiff brown (7.5YR 4/3) SILT, massive, micaceous no odor, moist	
			47	<0.5			
		48" DVP36				same as above, brown (7.5YR 5/2)	1210
5		60" DVP37					1212
				<0.5			
		90"	47				1214
				<0.5			
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	1216
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-14-A

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-B
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/13
DRILLER	Gilbert	DATE FINISHED	7/16/13

Elevation ft. Datum — Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	6610DT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 120" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☒ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				0.0	ML	grass cover medium stiff brown (7.5YR 4/3) SILT, massive, micaceous, no odor, moist	
			45				
	4'	48"				same as above, brown (7.5YR 5/2)	1140
5	5'	60"		0.0			1142
	8'	40"	47				1144
				0.0			
10	10'	120"				END OF BORING No GW encountered Total depth = 100 feet bgs	1146
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-14-B

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-C

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/19
DRILLER	Gilbert / Marco	DATE FINISHED	8/10/19

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6610DT/6600	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 120" bgs with track rig on 7/16. Drilled to 180" bgs on 8/10.
Ouside Dia. (in.)	2.75	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☒ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	ML	grass cover medium stiff brown (7.5YR 4/3) SILT, massive, micaceous, no odor, moist	
			46				
	48"	48"					
	60"	60"				same as above, brown (7.5YR5/2)	934
5				<0.5			936
	90"	90"	46				938
				<0.5			
10	120"	120"					940
				<0.5			
	150"	150"	48				1145
				<0.5			
15	180"	180"					1150
						END OF BORING No GW encountered Total depth = 15.0 feet bgs	
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-14-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-1
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/19
DRILLER	Gilbert	DATE FINISHED	7/16/19

Elevation ft. Datum — Boring Location

Boring Equipment

Type	6610DT
Ouside Dia. (In.)	2.25
Length Sleeve (In)	49
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ ATV ☒ Track ☐ Skid — ☐ Tripod ☒ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0				<0.5	ML	grass cover medium stiff brown (7.5YR4/2) SILT with Sand, micaceous, no odor, moist	
			45				
	4	48"		<0.5		Same as above, brown (7.5YR5/2)	1220
5	6	60"					1222
				<0.5			
	8	90"	44				1224
				<0.5			
10	10	120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	1226
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-14-1

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-G
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/18
DRILLER	Gilbert / Marco	DATE FINISHED	8/10/18

Elevation ft. Datum

Boring Location

Boring Equipment	
Type	6610DT/6600
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model: ☒ Truck ☐ ATV ☒ Track ☐ Skid ☐ Tripod ☒ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs with track unit on 7/16. Drilled to 216" bgs on 8/10

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0					ML	grass cover Medium stiff brown (7.5YR 4/3) SILT, massive, micaceous, no odor, moist	
			46				
	48"				ML	same as above, brown (7.5YR 5/2)	924
5	60"						926
	90"		47				928
10	120"						930
	150"		45				1122
15	180"						1125
			46				
					ML	same as above, pale brown (10YR 6/3) END OF BORING No GW encountered Total depth = 18.0 Feet bgs	
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. SSI-14-G

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-E
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/13
DRILLER	Gilbert	DATE FINISHED	7/16/13

Elevation ft. Datum — Boring Location

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	1.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ ATV ☒ Track ☐ Skid ☐ Tripod ☒ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 60" on 6/11. Drilled to 150" on 7/16.

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA		ML	grass cover Medium stiff brown (7.5YR 4/3) SILT, micaceous, no odor, moist	908
		19"		<0.5			910
		36"					912
		48"			ML	Same as Above, brown (7.5YR 5/2)	914
5		60"					915
				<0.5			
		90"	43				1320
				<0.5			
10		120"	35	<0.5			1322
		150"				END OF BORING No GW encountered Total depth = 12.5 feet bgs	1324
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-14-E

Field Tests — Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-E-A
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/18
DRILLER	Gilbert	DATE FINISHED	7/16/18

Elevation ft. Datum

Boring Equipment

Type	66 10 DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		6"			ML	medium stiff brown (7.5YR 4/3) SILT, massive, micaceous, no odor, moist	1320
		18"		0.0			1329
		36"	47				1330
		48"			ML	same as above, brown (7.5YR 5/2)	1331
		60"					1332
5				0.0			
		90"	48				1334
				0.0			
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	1336
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-14-E-A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-E-B

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	3/6/18
DRILLER	Gilbert	DATE FINISHED	3/6/18

Elevation ft. Datum

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"			ML	grass cover medium stiff brown (7.5YR 4/3) SILT, micaceous, massive, no odor, moist	1300
		18"	46	<0.5			1301
		36"					1302
		48"			ML	same as above, brown (7.5YR 5/2)	1303
5		60"					1304
		90"	46	<0.5			1305
				<0.5			
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	1306
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-14-E-B

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-E-C

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/18
DRILLER	Gilbert	DATE FINISHED	7/16/18

Elevation ft. Datum Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	6610DT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 120" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☒ Track	☐ Air Track		
Type Sleeve	alclad	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		6"			ML	medium stiff brown (7.5YR 4/3) SILT, massive,	1342
		18"				micaceous, no odor, moist	1343
		36"	46	<0.5			1344
		48"			ML	same as above, brown (7.5YR 5/2)	1345
5		60"					1346
				<0.5			
		90"	47				1348
				<0.5			
10		120"				END OF BORING No GW encountered	1350
						Total depth = 10.0 feet bgs	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-14-E-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-E-1
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/13
DRILLER	Gilbert	DATE FINISHED	7/16/13

Elevation ft. Datum

Boring Equipment

Type	5610DT
Ouside Dia. (in.)	3.25"
Length Sleeve (in)	48"
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"			ML	grass cover medium stiff brown (7.5YR 4/3) SILT, micaceous, massive, no odor, moist	1247
		18"					1248
		36"	47	<0.5			1249
		48"			ML	same as above, brown (7.5YR 5/2)	1250
5		60"					1251
				<0.5			
		90"	47				1253
				<0.5			
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	1255
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-14-E-1

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-14-S

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type

Ouside Dia. (in.)

Length Sleeve (in)

Type Sleeve

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		6"	HA	<0.5	ML	medium stiff brown (7.5YR 4/3) SILT with gravel, no odor, moist	1420
		18"/DUP#S		<0.5			1424
		36"		<0.5	ML	Same as above, brown (7.5YR 5/2), without gravel	1431
		48"		<0.5			1433
5		60"/DUP#	↓	<0.5			1435
						END OF BORING No GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-14-S

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger/Geoprobe

BORING NO. SSI-15
Page 1 of 1

PROJECT: David Starr Jordan Senior HS SSI
LOCATION: 2265 E. 103rd St LA CA 90002
CLIENT: LAUSD
CONTRACTOR: Interphase Environmental
DRILLER: Gilbert

PW FILE NO.: LASDI-32.7
FIELD REP.: M. Watson
DATE STARTED: 6/11/18
DATE FINISHED: 7/16/18

Elevation: ft. Datum:
Boring Location:

Boring Equipment: Type: 6610; Ouside Dia. (in.): 2 1/2; Length Sleeve (in): 48; Type Sleeve: acetate

Rig Make & Model: ☐ Truck ☐ ATV ☒ Track ☐ Dolly ☐ Tripod ☒ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated bentonite chips

Drilling Notes: Hand augered to 5' 6/11; Drilled to 12.5' 7/16

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		6" DUP3		<0.5	ML	medium stiff brown (7.5YR5/3) silt, micaceous,	938
		18"	45	<0.5		no odor, moist	942
		36"					944
		48"					945
5		60"			ML (cont)	same as above, brown, (7.5YR5/2)	947
			47	<0.5			
		90"		<0.5			348
10		120"	47	<0.5			850
		150"					852
						END OF BORING, Total depth = 12.5 ftbgs, No GW	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID
O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram
Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary
Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. SSI-15

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-15-A
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	3/16/18
DRILLER	Gilbert	DATE FINISHED	3/16/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- ☐ Truck ☐ Tripod
- ☐ ATV ☒ Geoprobe
- ☒ Track ☐ Air Track
- ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to ~120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"			ML	grass cover	
		18"				medium stiff brown (7.5YR4/3) SILT, massive, micaceous, no odor, moist	854
			48	<0.5			856
		36"					858
		48"			ML	same as above, brown (7.5YR5/2)	900
5		60"					902
				<0.5			
		90"	48				904
				<0.5			
10		120"				END OF BORING No GW encountered Total depth = 10. feet bgs	906
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-15-A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-15-B

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/18
DRILLER	Gilbert	DATE FINISHED	7/16/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	66 DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	Acetate

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"				Grass cover	
		18"	47	<0.5	ML	Medium stiff brown (7.5YR4/3) SILT, massive, micaceous, no odor, moist	815
		36"					817
		48"			ML	Same as above, Brown (7.5YR5/2)	819
		60"					821
5							823
				<0.5			
		90"	48				825
				<0.5			
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	827
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-15-B

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-15-C
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/18
DRILLER	Gilbert	DATE FINISHED	7/16/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	Geoprobe
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ ATV ☐ Track ☐ Skid ☐ Tripod ☐ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6" DUP34 18"			ML	Grass cover medium stiff brown (7.5YR4/3) SILT, massive, micaceous, no odor, moist	754
		36"	40	LOS	ML		755
		48"				same as above, brown (7.5YR5/2)	756
5		60" DUP35					757
			43	LOS			758
		90"					759
			21	LOS			800
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-15-C

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-15-1
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/16/18
DRILLER	Gilbert	DATE FINISHED	7/16/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ Tripod ☐ ATV ☐ Geoprobe ☐ Track ☐ Air Track ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"		<0.5	ML	grass cover medium stiff brown (7.5YR4/3) SILT, massive, micaceous, no odor, moist	802
		18"	42	<0.5			804
		36"					806
		48"			ML	same as above, brown (7.5YR 5/2)	808
5		60"					809
			45	<0.5			
		90"					811
			21	<0.5			
10		120"				END OF BORING No GW encountered Total depth = 10.0 feet bgs	813
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-15-1

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-15-F

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PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	7/16/19
DATE FINISHED	7/16/19

Elevation ft. Datum

Boring Location

Boring Equipment

Type	Geoprobe
Ouside Dia. (in.)	3.25
Length Sleeve (in)	4
Type Sleeve	acetate

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☒ Geoprobe
☒ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 120" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"		<0.5	ML	grass cover medium stiff brown (7.5YR 5/2) SILT, massive, micaceous, no odor, moist	740
		18"	45	<0.5			742
		36"					744
		48"					746
5		60"					748
			43	<0.5			
		90"					750
			23	<0.5			
10		120"				END OF BORING No GW encountered total depth = 10.0 feet bgs	752
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-15-F

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-17-E

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/19
DRILLER	Gilbert	DATE FINISHED	6/11/19

Elevation ft | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 6" base material	
	XXX	6"/DUP1	HA	0.5	SM	Medium dense brown (7.5YR 5/2) silty fine SAND, no odor,	1007
	XXX	24"	↓	0.5		moist, occasional metal debris —artificial fill—	1012
						END OF BORING	
						No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-17-E

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-17-W
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/13
DRILLER	Gilbert	DATE FINISHED	9/17/13

Elevation ft. Datum — Boring Location

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model: ☐ Truck ☐ ATV ☒ Track ☐ Skid; ☐ Tripod ☒ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" on 6/11. Drilled to 90" on 7/17.

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 4" base material	
		6"	HA		ML	Medium stiff brown (7.5YR 4/2) SILT with sand & gravel, no odor, moist – artificial fill –	1027
		24"	↓	0.5	ML	Medium stiff brown (7.5YR 4/3) SILT, micaceous, no odor, moist – alluvium –	0930
			20	0.5			
		48"			SP	Medium dense light brown (7.5YR 6/3) poorly graded fine SAND, massive, nonplastic, no odor, moist – alluvium –	1327
5		60"					1329
			28	0.5	SM	Medium dense brown (7.5YR 5/2) silty SAND, massive, no odor, moist – alluvium –	
		90"				END OF BORING No GW encountered	1331
						Total depth 7.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-17-W

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-18-E
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/18
DRILLER	Gilbert	DATE FINISHED	6/11/18

Elevation ft. Datum — Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ Tripod ☐ ATV ☐ Geoprobe ☐ Track ☐ Air Track ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt 4" base material	
		6"	HA	0.0	SM	medium dense brown (7.5YR 4/2) silty fine SAND with gravel, no odor, moist - fill	1115
		24"	↓	0.0	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, micaceous, moist - alluvium	1120
						END OF BORING	
						No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary
Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. SSI-18-E

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-18-W
Page 1 of 1

PROJECT David Starr Jordan Senior HS SSI
LOCATION 3265 E 103rd St LA CA 90002
CLIENT LASD
CONTRACTOR Interphase Environmental
DRILLER Gilbert

TPC FILE NO. LASD1-32.7
FIELD REP. M. Watson
DATE STARTED 6/11/18
DATE FINISHED 6/11/18

Elevation ft. Datum
Boring Location

Boring Equipment	
Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ Tripod ☐ ATV ☐ Geoprobe ☐ Track ☐ Air Track ☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips

Drilling Notes: Hand augered

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	X	6"	HA	0.5	ML	3" asphalt, 6" base material Medium stiff brown (7.5YR 4/2) silt w/ fine sand, no odor, dry -artificial fill-	1129
2	X	24"		0.5		Medium stiff brown (7.5YR 4/3) silt, micaceous, no odor, dry -native alluvium- END OF BORING, Total depth = 2 feet bgs, No GW	1132
4							
6							
8							
10							
12							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. SSI-18-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil Identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-18-W-1

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/18/19
DRILLER	Gilbert	DATE FINISHED	7/18/19

Elevation ft. Datum

Boring Location

Boring Equipment

Type	6608
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	alcetate

Rig Make & Model

- [x] Truck
- [ ] ATV
- [ ] Track
- [ ] Skid
- [ ] Tripod
- [x] Geoprobe
- [ ] Air Track
- [ ] other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Drilled to 3 ft bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	X	6"		<0.5	ML	3" asphalt 3" base material	
	X	24"	33			medium stiff brown (7.5YR5/2) SILT with sand and gravel, no odor, dry	753
	X	36"		<0.5	ML	same as above, no sand or gravel	754
						END OF BORING No GW encountered	755
5						Total depth = 3 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-18-W-1

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-19-E
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/19
DRILLER	Gilbert	DATE FINISHED	6/11/19

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 30" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 5" base material	
		18"/DUP	HA	<0.5	ML	Medium stiff brown (7.5YR 4/2) SILT, no odor, micaceous, dry	1143
		30"		<0.5		END OF BORING No GW encountered	1145
						Total depth = 2.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-19-E

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-19-W
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/19
DRILLER	Gilbert	DATE FINISHED	6/11/19

Elevation	ft.	Datum	Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 30" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 4" base Material	
			HA	<0.5	ML	medium stiff brown (7.5YR4/2) SILT with fine sand, no odor, micaceous, moist	1207
		18"	↓	<0.5			
		30"			ML	same as above, without sand	1210
						END OF BORING No GW encountered	
						Total depth = 2.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-19-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-28-C
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ ATV ☐ Track ☐ Skid ☐ Tripod ☐ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to ~24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	ML	2" asphalt, 2" base material Medium stiff brown (7.5YR 4/2) SILT with sand & gravel, no odor, fill	1400
		24"	↓	<0.5	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, moist - alluvium	1402
						END OF BORING No GW encountered Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary
Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. SSI-28-C

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-28-N
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Boring Location

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						2" asphalt, 2" base material	
		6"	HA	<0.5	ML	medium stiff brown (7.5YR4/2) SILT with sand & gravel, no odor - fill	1345
		24"	↓	<0.5	ML	Medium stiff brown (7.5YR4/2) SILT, no odor, moist - alluvium	1345
						END OF BORING — No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-28-N

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-28-W/29-E
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation	ft.	Datum	Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 24" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	ML	2" asphalt, 2" base material medium stiff brown (7.5YR 4/2) SILT with sand & gravel, no odor, moist - fill	1333
		24"	↓	<0.5	ML	Medium stiff brown (7.5YR 4/2) SILT, no odor, moist - alluvium -	1335
						END OF BORING No GW encountered Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-28-W/29-E

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. 55I-29-N
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/19
DRILLER	Gilbert	DATE FINISHED	6/13/19

Elevation ft. Datum — Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	ML	3" asphalt, 2" base Material Medium stiff brown (7.5YR 4/2) SILT w/ sand & gravel, no odor - fill	1322
		24"	↓	<0.5	ML	Medium stiff brown (7.5YR 4/2) SILT, no odor, moist - alluvium	1324
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. 55I-29-N

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-29-W

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						2" asphalt, 2" base material	
		6"	HA	<0.5	ML	Medium stiff brown (7.5YR 4/2) SILT, no odor, moist	1311
		24"	↓	<0.5			1313
						END OF BORING — No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-29-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-30-N

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/19
DRILLER	Gilbert	DATE FINISHED	6/12/19

Elevation ft.	Datum	Boring Location	
Boring Equipment	Rig Make & Model	Backfill Material	Drilling Notes:
Type	☐ Truck ☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 24" bgs
Ouside Dia. (in.)	☐ ATV ☐ Geoprobe		
Length Sleeve (in)	☐ Track ☐ Air Track		
Type Sleeve	☐ Skid ☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 2" base material	
		6"	HA	<0.5	ML	Medium stiff brown (7.5YR4/2) SILT w/ sand & gravel, no odor - FILL	1259
		24"	↓	<0.5	ML	medium stiff brown (7.5YR4/2) SILT, no odor, moist - alluvium	1301
						END OF BORING No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-30-N

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-30-S
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	7/18/18

Elevation ft. Datum

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	4.25
Length Sleeve (in)	48"
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs on 6/12. Drilled to 60" bgs on 7/18.

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 2" base material	
		6"	HA	LOS	ML	Medium stiff brown (7.5YR 4/2) SILT with fine sand and gravel, no odor, moist – artificial fill –	1251
		24"	↓	LOS			1253
		36"		LOS			1326
			32	LOS	ML	Medium stiff brown (7.5YR 4/2) SILT, massive, no odor, moist – alluvium	
5		60"		LOS		END OF BORING No GW encountered	1328
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-30-S

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-30-W

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/19
DRILLER	Gilbert	DATE FINISHED	6/12/19

Elevation	ft.	Datum	Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 24" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 2" base material	
		6"	HA	0.0	ML	medium stiff brown (7.5YR 4/2) SILT w/ sand & gravel, no odor - fill	1243
		24"	↓	0.0	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, moist - alluvium	1245
						END OF BORING	
						No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID	
O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram	
	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary	
Overburden (Linear ft.)	
Rock Cored (Linear ft.)	
Number of Samples	
BORING NO.	SSI-30-W

Field Tests
Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-31-E

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/13/18
DRILLER	Gilbert	DATE FINISHED	6/13/18

Elevation	ft	Datum	Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 24" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 2" base material	
		6"	HA	<0.5	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, moist	1234
		24"	↓	<0.5	ML	medium stiff brown (7.5YR 4/2) SILT with fine sand, no odor, moist	1236
						END OF BORING — No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-31-E

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-31-N

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0							
		6"	HA	<0.5	ML	2" asphalt, 2" base material medium stiff brown (7.5YR4/2) SILT with gravel, no odor - fill	
		24"	↓	<0.5	SP	medium dense brown (7.5YR4/2) poorly graded fine SAND, non plastic, no odor, moist - alluvium	
						END OF BORING No GW encountered Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-31-N

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSE-31-S
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/13
DRILLER	Gilbert	DATE FINISHED	6/12/13

Elevation ft Datum

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Boring Location

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						2" asphalt, 2" base material	
		6"	HA	<0.5	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, moist	1228
		24"	↓	<0.5			1230
						END OF BORING — No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSE-31-S

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-31-W

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 24" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	ML	3" asphalt, 4" base material	10/1
		24"	↓	<0.5		medium stiff brown (7.5YR 4/2) SILT, no odor, moist	10/4
						END OF BORING — No GW encountered	
						Total depth = 2.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-31-W

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-32
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 3" base material	
		6"	HA	<0.5	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, moist	954
		18"		<0.5			956
		36"		<0.5			958
		48"		<0.5			959
		60"		<0.5			1000
5						END OF BORING — No GW encountered. Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. SSI-32

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-32-E

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	9/10/18
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	9/10/18

Elevation ft. Datum

Boring Location

Boring Equipment	
Type	6600
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	Acetate

Rig Make & Model: ☒ Truck ☐ ATV ☐ Track ☐ Skid ☐ Tripod ☒ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 36" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 3" base Material	
		6"		<0.5	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, massive, moist	1518
		18"	33	<0.5			1520
		36"					1522
						END OF BORING No GW encountered	
						Total depth = 3.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-32-E

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-33

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/1/18
DRILLER	Gilbert	DATE FINISHED	6/1/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	ML	3" asphalt, 3" base material medium stiff brown (7.5YR 4/2) SILT w/ fine sand & gravel, no odor, moist - artificial fill	1437
		18"		<0.5			1442
		36"		<0.5			1444
		48"		<0.5	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, moist - alluvium	1446
5		60"	↓	<0.5		END OF BORING No GW encountered Total depth = 5.0 feet bgs	1448
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-33

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-33-S

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-327
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/10/18
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	8/10/18

Elevation ft.	Datum	Boring Location	

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6625	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 36" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☐ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	☒	6"		LOS	ML	5" asphalt, 4" base material	
	☒	18"	30	LOS		Medium stiff brown (7.5YR4/2) SILT, no odor, massive, moist	1528
	☒	36"					1530
							1532
						END OF BORING No GW encountered	
						Total depth = 3.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (Linear ft) _____ Rock Cored (Linear ft) _____ Number of Samples _____ BORING NO. SSI-33-S

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-34
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/18
DRILLER	Gilbert	DATE FINISHED	7/19/18

Elevation ft. Datum

Boring Equipment

Type	6610DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	60
Type Sleeve	Acetate

Boring Location

Rig Make & Model

☐ Truck	☐ Tripod		
☐ ATV	☒ Geoprobe		
☒ Track	☐ Air Track		
☐ Skid	☐ other		

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 5 feet bgs on 6/11. Drilled to 30 feet bgs on 7/19 with Geoprobe.

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 3" base material	
		6"	HA	0.0	ML	medium stiff brown (7.5YR4/3) SILT, no odor, massive, moist	1423
		18"		0.0			1424
		36"		0.0			1426
		48"		0.0			1428
5		60"		0.0	ML	Same as above, with fine sand	1430
				0.0	ML	medium stiff dark brown (7.5YR 3/2), no odor, massive, moist SILT	
			47	0.0			
10		10'					1242
				0.0			
			49	0.0	ML	medium stiff light brown (7.5YR 6/4) SILT with fine sand, no odor, massive, moist	
15		15'			SM	medium dense light brown (7.5YR 6/4) silty SAND, no odor, massive, moist	1246
				0.0			
			46	0.0	ML	medium stiff dark brown (7.5YR 3/2) SILT, no odor, massive, moist	
20		20'					1247
				0.0	SM	medium dense light brown (7.5YR 6/4) silty SAND, no odor, massive, moist	
			45	0.0	ML	medium stiff dark brown (7.5YR 3/2) SILT, no odor, massive, moist	
25		25'					1249
				0.0			
			38	0.0			
					SM	medium dense greenish gray (10Y 5/1) silty SAND, no odor, massive, moist	
30		30'			ML	medium dense dark greenish gray (10Y 3/1) SILT, no odor, massive, moist	1252
						END OF BORING. No GW encountered. Total depth = 30ft bgs	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-34

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-35
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/18
DRILLER	Gilbert	DATE FINISHED	6/11/18

Elevation	ft	Datum	Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 60" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"/DUP6	HA	<0.5	ML	3" asphalt, 3" base material medium stiff brown (7.5YR 4/2) SILT with fine sand, no odor, moist	1404
		18"		<0.5	ML	same as above, without sand	1409
		36"		<0.5			1410
		48"		<0.5			1411
5		60"/DUP7	↓	<0.5			1413
						END OF BORING No GW encountered Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-35

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-36
Page 1 of 2

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/18
DRILLER	Gilbert	DATE FINISHED	6/14/18

Elevation ft. Datum

Boring Equipment

Type	6600
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	Acetate

Boring Location

Rig Make & Model

☒ Truck ☐ Tripod
☐ ATV ☒ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 5' bgs on 6/11. Drilled to 40' bgs on 6/14 with Geoprobe.

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 3" base material	
		6"	HA	<0.5	SM	medium dense brown (7.5YR 4/3) silty SAND with gravel, no odor	1334
		18"		<0.5	ML	medium stiff brown (7.5YR 4/3) SILT, no odor, moist	1341
		36"		<0.5			1343
		48"		<0.5			1345
5		60"		1.9	ML	medium stiff gray (10YR 5/1) SILT, strong diesel odor, moist	1356
			47	12			
10		10'					1209
					ML	same as above, with fine sand	
			47	32			
					ML	same as above, without sand	
15		15'					1211
			47				
				0.8			
20		20'					1213
				<0.5	ML	medium stiff grayish brown (10YR 5/2) SILT w/fine sand, faint diesel odor, moist	
			46		ML	same as above, without sand	
				<0.5			
25		25'					1217
					SP	medium dense greenish gray (10Y 5/1) poorly graded medium SAND, nonplastic, faint diesel odor, massive, moist	
			40		ML	medium stiff greenish gray (10Y 5/1) SILT with fine sand, faint diesel odor, massive, moist	
				<0.5			
30		30'					1224

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-36

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT

BORING NO. 55I-36

Page 2 of 2

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description	Time
30			24	0.5	ML	same as above, without sand	
			44	0.5	ML	same as above, no odor	
35	X	35'					1228
			34	0.5	SP	medium dense greenish gray (10Y5/1) poorly graded medium SAND, non plastic, no odor, massive, moist	
40	X	40'				END OF BORING No GW encountered	1233
						Total depth = 40.0 feet bgs	
45							

NOTE:

FILE NO. LA5011-32.7

BORING NO. 55I-36

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-37

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/18
DRILLER	Gilbert	DATE FINISHED	6/11/18

Elevation ft. Datum

Boring Equipment

Type
Ouside Dia. (in.)
Length Sleeve (in)
Type Sleeve

Boring Location

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 3" base material	
		6"	HA	<0.5	SM	medium dense brown (7.5YR 4/2) silty SAND with gravel,	1317
		18"		<0.5		no odor; moist -artificial fill-	1320
		36"		<0.5			1322
		48"		<0.5	ML	medium stiff brown (7.5YR4/2) SILT, no odor; micaceous;	1323
		60"		<0.5		moist -alluvium-	1324
5						END OF BORING No GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-37

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. 55I-38

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/19
DRILLER	Gilbert	DATE FINISHED	6/11/19

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 60"bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 3" base material	
		6"	HA	<0.5	ML	Medium stiff brown (7.5YR 4/2) SILT with gravel, no odor,	1255
		18"	1	<0.5		moist -artificial fill-	1300
		36"		<0.5		@2.5' concrete pieces noted	1302
		49"		<0.5		@3.5' slag pieces noted	1304
		60"	↓	<0.5			1306
5						END OF BORING No GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. 55I-38

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-39
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/11/19
DRILLER	Gilbert	DATE FINISHED	6/11/19

Elevation ft | Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 60' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 7" base material	
		6"	HA	<0.5	ML	medium stiff brown (7.5YR 4/2) SILT, no odor, dry	1237
		18"		<0.5			1239
		36"		<0.5			1241
		48"		<0.5			1243
5		60"		<0.5			1245
						END OF BORING No GW encountered	
						Total depth = 50 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. SSI-39

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-40

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation	ft.	Datum	Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 60" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 3" base material	
		6"	HA	<0.5	ML	Medium stiff brown SILT, no odor, micaceous, moist	1145
		18"		<0.5			1147
		36"		<0.5			1149
		48"		<0.5			1151
5		60"	↓	<0.5			1152
						END OF BORING No GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-40

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-41

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/12/18
DRILLER	Gilbert	DATE FINISHED	6/12/18

Elevation ft. Datum — Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 60" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"/DUP	HA	<0.5	ML	3" asphalt, 2" base material medium stiff brown (7.5YR 4/2) SILT, no odor, moist	1203
		18"		<0.5			1205
		36"		<0.5			1207
		48"		<0.5			1209
5		60"/DUP		<0.5			1211
						END OF BORING — No GW encountered Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-41

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-42
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/18
DRILLER	Gilbert	DATE FINISHED	6/14/18

Elevation ft. Datum — Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 60" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	XX	6"/NR	HA	<0.5	SM	4" light reddish brown (5YR6/3) silty fine SAND - fill	
	XX	18"		<0.5		medium dense brown (7.5YR5/2) silty fine SAND, no odor, moist	831
	XX	36"		<0.5	ML	medium stiff grayish brown (10YR5/2) SILT, micaceous, no odor, moist	833
	XX	48"		<0.5			835
5	XX	60"		<0.5	SP	medium dense light brown (7.5YR6/3) poorly graded fine SAND, nonplastic, no odor, moist	838
						END OF BORING No GW encountered	840
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-42

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-43

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/18
DRILLER	Gilbert	DATE FINISHED	6/14/18

Elevation ft. Datum

Boring Location

Boring Equipment	
Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model: ☐ Truck ☐ ATV ☐ Track ☐ Skid ☐ Tripod ☐ Geoprobe ☐ Air Track ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	SM	4" light reddish brown (5YR6/3) silty fine SAND - fill medium dense dark brown (7.5YR3/3) silty fine SAND, no odor, moist	817
		18"		<0.5	ML	medium stiff dark brown (7.5YR3/3) SILT with Sand & gravel	819
		36"		<0.5	ML	medium stiff brown (7.5YR5/2) SILT, micaceous, no odor, moist	821
		48"		<0.5			823
5		60"		<0.5	SP	medium dense light brown (7.5YR 6/3) poorly graded fine SAND, non plastic, no odor, moist END OF BORING No GW encountered Total depth = 5.0 feet bgs	825
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-43

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-44

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/18
DRILLER	Gilbert	DATE FINISHED	6/14/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Hand augered to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		6"	HA	<0.5	SM	medium dense, brown (7.5YR5/2) silty fine SAND, mottled, no odor, moist	802
		18"		<0.5			804
		36"		<0.5	ML	medium stiff, grayish brown (10YR5/2) SILT, micaceous, no odor, moist	806
		48"		<0.5			808
5		60"	↓	<0.5	SP	medium dense, light brown (7.5YR6/3) poorly graded fine SAND, nonplastic, no odor, moist	809
						END OF BORING — No GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-44

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-45

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/18
DRILLER	Gilbert	DATE FINISHED	6/14/18

Elevation ft Datum

Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Hand augered to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	HA	<0.5	SM	grass cover medium dense brown (7.5YR 5/2) silty fine SAND, mottled (with grayish brown (10YR5/2), no odor, moist	750
		18"		<0.5			753
		36"		<0.5	ML	medium st. ff grayish brown (10YR5/2) SILT, micaceous, no odor, moist	755
		48"		<0.5	ML	same as above, with fine sand	757
		60"	▼	<0.5	SP	medium dense light brown (7.5YR6/3) poorly graded fine SAND, non plastic, no odor, moist	758
5						END OF BORING No GW encountered Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-45

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-45-A
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. | Datum | Boring Location

Boring Equipment

Type	661-DT
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

☐	Truck	☐	Tripod
☐	ATV	☒	Geoprobe
☒	Track	☐	Air Track
☐	Skid	☐	other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 36" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"		<0.5	SM	grass cover Medium dense brown (7.5YR5/2) silty Fine SAND	829
		18"	35	<0.5		massive, no odor, moist	830
		36"					831
						END OF BORING No GW encountered Total depth 3.0 Feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. SSI-45-A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-45B
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum

Boring Equipment

Type	6610 DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 36" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	X	6"		0.5	SM	grass cover Medium dense brown (7.5YR5/2) silty fine SAND, massive, no odor, moist	840
	X	18"	32	0.5			842
	X	36"					844
						END OF BORING Total depth = 3.0 feet bgs No GW encountered	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. SSI-45B

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-45-C

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert / Marco	DATE FINISHED	8/10/18

Elevation ft. Datum

Boring Equipment

Type	6610DT/6600
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

- [x] Truck
- [ ] ATV
- [x] Track
- [ ] Skid
- [ ] Tripod
- [x] Geoprobe
- [ ] Air Track
- [ ] other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 36" bgs on 7/13 with track rig. Drilled to 90" bgs 8/10

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"				grass cover	
		18"	34	<0.5	SM	Medium dense brown (7.5YR5/2) silty fine SAND, massive, no odor, moist	824
		36"		<0.5			826
				<0.5	SP	Medium dense brown (7.5YR5/3) poorly graded fine SAND, massive, no odor, moist	828
5		60"	46				816
				<0.5	ML	Medium stiff brown (7.5YR4/2) SILT, no odor, moist	
		90"				END OF BORING No GW encountered Total depth = 7.5 feet bgs	818
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-45-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-45-D

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft | Datum | Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	Geoprobe DT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 36" bgs
Ouside Dia. (in.)	2.75	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☑ Track	☐ Air Track		
Type Sleeve	Acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		6"		<0.5	SM	Medium dense brown (7.5YR 5/2) Silty Fine SAND,	833
		18"	33	<0.5		massive, no odor, moist	834
		36"					835
						END OF BORING No GW encountered	
						Total depth 3.0 Feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-45-D

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-45-G
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft | Datum | Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	Geo DT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 36" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☑ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"		<0.5	SM	grass cover	818
		18"	33	<0.5		Medium dense brown (7.5YR5/2) silty fine SAND, massive, no odor, moist	820
		36"		<0.5			822
						END OF BORING No GW encountered	
						Total depth = 3.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. SSI-45-G

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-46

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	6/14/18
DRILLER	Gilbert	DATE FINISHED	6/14/18

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Hand augered to 60" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0							
		6"	HA	0.5	SM	grass cover medium dense brown (7.5YR 5/2) silty fine SAND, no odor, moist	739
		18"		0.5			741
		36"		0.5			742
		48"		0.5	ML	medium stiff brown (7.5YR 5/2) SILT with sand, no odor, moist	744
5		60"	↓	0.5	SP	medium dense light brown (7.5YR 6/3) poorly graded fine SAND, nonplastic, no odor, moist	745
						END OF BORING — No GW encountered Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. SSI-46

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-46-A
Page 1 of 1

PROJECT	David Starr Jordan Senior High School
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002
CLIENT	Los Angeles Unified School District
CONTRACTOR	Interphase Environmental
DRILLER	Gilbert
TPC FILE NO.	LASD1-32.7
FIELD REP.	M. Watson
DATE STARTED	7/13/18
DATE FINISHED	7/13/18

Elevation ft. Datum

Boring Equipment

Type	Geoprobe DT
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 18" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	0-1.5'	DUP 1	17	<0.5	SM	grass cover Medium dense brown (7.5YR 5/2) silty fine SAND, massive, no odor; moist END OF BORING No GW encountered Total depth = 1.5 feet bgs	803 805
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-46-A

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-46-B

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	Geoprobe DT	☐ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 18" bgs
Ouside Dia. (in.)	3.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☒ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	X	6"	16	<0.5	SM	grass cover medium dense brown (7.5YR5/2) silty fine SAND, massive, no odor, moist	806
	X	18"					808
						END OF BORING No GW encountered Total depth = 1.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____

Rock Cored (Linear ft.) _____

Number of Samples _____

BORING NO. SSI-46-B

Field Tests

Dilatancy: R - Rapid S - Slow N - None

Toughness: L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High

Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. 55I-46-C

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/17
DRILLER	Gilbert	DATE FINISHED	7/13/17

Elevation ft. | Datum | Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	6610DT	☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 18" bgs
Ouside Dia. (in.)	3.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☒ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	14	<0.5	SM	grass cover medium dense brown (7.5YR5/2) silty fine SAND, massive, no odor, moist	753
		18"				END OF BORING No GW encountered Total depth = 1.5 feet bgs	755
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) ____
Rock Cored (Linear ft.) ____
Number of Samples ____

BORING NO. 55I-46-C

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-46-D
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation ft. Datum | Boring Location

Boring Equipment

Type	
Ouside Dia. (in.)	
Length Sleeve (in)	
Type Sleeve	

Rig Make & Model

☐ Truck ☐ Tripod
☐ ATV ☐ Geoprobe
☐ Track ☐ Air Track
☐ Skid ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 18" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	15	<0.5	SM	grass cover	
		18"				Medium dense brown (7.5YR5/2) silty fine SAND	800
						Massive, no odor, moist	802
						END OF BORING No GW encountered	
						Total depth = 1.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. SSI-46-D

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-46-G
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/13/18
DRILLER	Gilbert	DATE FINISHED	7/13/18

Elevation	ft.	Datum	Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type		☐ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 18" bgs
Ouside Dia. (in.)		☐ ATV	☐ Geoprobe		
Length Sleeve (in)		☐ Track	☐ Air Track		
Type Sleeve		☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"	14	<0.5	SM	grass cover	745
		18"				Medium dense brown (7.5YR 5/2) silty fine SAND, massive, no odor, moist	747
						END OF BORING; No GW encountered	
						Total depth = 1.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples
BORING NO. SSI-46-G

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-47

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/19/18
DRILLER	Gilbert	DATE FINISHED	7/19/18

Elevation ft. Datum

Boring Equipment

Type	6610D
Ouside Dia. (in.)	2.25
Length Sleeve (in)	6"
Type Sleeve	acetate

Boring Location

Rig Make & Model

- ☐ Truck
- ☐ ATV
- ☒ Track
- ☐ Skid
- ☐ Tripod
- ☒ Geoprobe
- ☐ Air Track
- ☐ other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 30' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0					ML	3" asphalt, 3" base material medium stiff brown (7.5YR4/3) SILT with fine sand & gravel, no odor	
			36	LOS	ML	medium stiff brown (7.5YR4/3) SILT, no odor, massive, moist	
				LOS			
5							
				LOS			
			32	LOS			
10	X	10'			ML	medium stiff light brown (7.5YR 6/4) SILT with fine sand, no odor, massive, moist	1503
				LOS			
			56		SM	medium dense, light brown (7.5YR6/4) silty SAND, no odor, massive, moist	
15	X	15'			SP	medium dense light brown (7.5YR6/4) poorly graded fine SAND, faint diesel odor, massive, moist	1506
			50	1.3	ML	medium stiff gray (10YR 5/1) SILT with fine sand, strong diesel odor, massive, moist	
	X	Duf59		11.5			
20	X	20'					1510
				LOS		@21.0 odor is not noticed	
			46		ML	medium stiff gray (10YR5/1) SILT, no odor, massive, moist	
				LOS			
25	X	25'					1513
					ML	same as above, with fine sand	
				LOS			
			42				
				LOS	SP	medium dense greenish gray (10Y5/1) poorly graded medium SAND, non plastic, massive, no odor, moist	
30	X	30'			ML	medium stiff greenish gray (10Y5/1) SILT with sand, no odor	1517
						END OF BORING. No GW encountered. Total depth = 30.0 ft bgs	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-47

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-48 | Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/9/18
DRILLER	Gilbert	DATE FINISHED	7/9/18

Elevation ft. | Datum | Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6610DT	☐ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 30' bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	60	☒ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0					SM	4" asphalt, 3" base material medium dense brown (7.5YR 4/3) silty SAND with gravel, no odor	
				<0.5	ML	medium stiff brown (7.5YR 4/3) SILT, no odor, massive, moist	
			38				
				<0.5	SM	medium dense brown (7.5YR 4/3) silty SAND, no odor, moist	
5					ML	medium stiff dark brown (7.5YR 3/2) SILT, no odor, massive, moist	
				<0.5			
			32				
				<0.5			
10	X	10'					1410
				<0.5	ML	Same as above, with fine sand	
			58				
				<0.5	SM	medium dense light brown (7.5YR 6/4) silty fine SAND, no odor, massive, moist	
15	X	15'			ML	medium stiff gray (10YR 5/1) SILT, strong diesel odor, massive, moist	1413
				3.1			
			50				
				0.5			
	X	DUP58					
20	X	20'					1416
					SP	medium dense light brown (7.5YR 6/4) silty fine SAND, no odor, massive, moist	
				<0.5	ML	medium stiff gray (10YR 5/1) SILT, faint diesel odor, massive, moist	
			52				
				<0.5			
25	X	25'					1420
				<0.5	ML	same as above, with sand, without odor	
			54		SM	medium dense greenish gray (10Y 5/1) silty fine SAND, no odor, massive, moist	
				<0.5	ML	medium dense dark greenish gray (10Y 3/1) SILT with fine sand, no odor, massive, moist	
30	X	30'				END OF BORING No GW encountered Total depth = 30 feet bgs	1423

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-48

Field Tests — Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-49 | Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	7/19/18
DRILLER	Gilbert	DATE FINISHED	7/19/18

Elevation ft. | Datum | Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6610D7	☐ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 30' bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	60	☒ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0					ML	4" asphalt, 2" base material	
				<0.5	ML	medium stiff brown (7.5YR4/3) SILT with fine sand & gravel, no odor	
			38			medium stiff brown (7.5YR4/3) SILT, no odor, massive, moist	
				<0.5			
5							
				<0.5			
			36				
				<0.5			
10	☒	10'			ML	medium stiff light brown (7.5YR6/4) SILT with fine sand, no odor, massive, moist	1325
				<0.5			
			43				
				<0.5	SM	medium dense light brown (7.5YR6/4) silty fine SAND, no odor, massive, moist	
15	☒	15'			ML	medium stiff light brown (7.5YR6/4) SILT with fine sand, no odor, massive, moist	1329
				<0.5	ML	same as above, without sand	
			50				
				<0.5			
20	☒	20'			ML	medium stiff dark brown (7.5YR 3/2) SILT with fine sand, no odor, massive, moist	1334
				<0.5			
			26				
				<0.5			
					SP	medium dense light brown (7.5YR6/4) poorly graded medium SAND, non plastic, massive, no odor, moist	
25	☒	25'			ML	medium stiff dark brown (7.5YR 3/2) SILT, no odor, massive, moist	1333
				<0.5			
			45		ML	medium stiff greenish gray (10Y5/1) SILT with fine sand, no odor, massive, moist	
				<0.5			
30	☒	30'				END OF BORING No GW encountered Total depth = 30.0' bgs	1337

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID: O Open End Rod; T Thin Wall Tube; U Undisturbed Sample; S Split Spoon Sample; G Geoprobe

Well Diagram: Riser Pipe; Screen; Filter Sand; Cuttings; Grout; Concrete; Bentonite Seal

Summary: Overburden (Linear ft.) ____ Rock Cored (Linear ft.) ____ Number of Samples ____

BORING NO. SSI-49

Field Tests — Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-S0

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/13/18
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	8/13/18

Elevation ft.	Datum	Boring Location			
Boring Equipment		**Rig Make & Model**		**Backfill Material**	**Drilling Notes:**
Type	6600	☒ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 25' bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☐ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	☒	0.5'			ML	3" asphalt, 2" base material medium stiff brown (7.5YR 4/3) SILT, no odor, massive, moist	725
	☒	1.5'		<0.5			727
			46		SM	medium dense brown (7.5YR 4/3) silty fine SAND, no odor, massive, moist	
				<0.5	ML	medium stiff dark brown (7.5YR 3/2) SILT, no odor, massive, moist	
5	☒	5'					729
				<0.5			
			47				
				<0.5			
10	☒	10'			SM	medium dense light brown (7.5YR 6/4) silty fine SAND, no odor, massive, moist	731
				<0.5			
			44	<0.5	SP	medium dense light brown (7.5YR 6/4) poorly graded fine SAND, no odor, massive, moist	
15	☒	15'					735
				<0.5			
			44	8.3	ML	medium stiff dark brown (7.5YR 3/2) SILT, strong diesel odor, massive, moist	
				5.2			
20	☒	20'		1.7			740
				<0.5	ML	same as above, no odor, gray (10YR 5/1)	
			47	<0.5			
25	☒	25'					753
						END OF BORING No GW encountered Total depth = 25.0 feet bgs	
30							

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (Linear ft.) Rock Cored (Linear ft.) Number of Samples BORING NO. SSI-S0

Field Tests — Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-S1
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/13/19
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	8/13/19

Elevation ft. Datum

Boring Equipment

Type	6600
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	Acetate

Boring Location

Rig Make & Model

- [ ] Truck
- [ ] ATV
- [ ] Track
- [ ] Skid
- [ ] Tripod
- [x] Geoprobe
- [ ] Air Track
- [ ] other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 25' bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	X	0.5'			ML	3" asphalt, 2" base material medium stiff brown (7.5YR4/3) SILT, no odor, massive, moist	835
	X	1.5'		<0.5			837
			47	<0.5	SM	medium dense brown (7.5YR 4/3) silty fine SAND, no odor, massive, moist	
				<0.5	ML	Medium stiff dark brown (7.5YR 3/2) SILT, no odor, massive moist	839
5	X	5.0'					
				<0.5			
			47				
				<0.5			
10	X	10'					842
				<0.5			
			47				
				<0.5	SM	medium dense light brown (7.5YR6/4) silty fine SAND, no odor, massive, moist	
15	X	15'					846
				<0.5	ML	medium stiff dark brown (7.5YR 3/2) SILT, no odor, massive, moist	
			48				
				<0.5			
20	X	20'					850
				<0.5	ML	medium stiff gray (10YR5/1) SILT, no odor, massive, moist	
			47				
				<0.5			
25	X	25'					855
						END OF BORING — No GW encountered Total depth = 25.0 feet bgs	
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-S1

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-52

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	9/10/19
DRILLER	Gilbert Marco	DATE FINISHED	9/10/19

Elevation ft. Datum

Boring Location

Boring Equipment

Type	6600
Ouside Dia. (in.)	2 1/2 3
Length Sleeve (in)	48
Type Sleeve	Acetate

Rig Make & Model

- [x] Truck
- [ ] ATV
- [ ] Track
- [ ] Skid
- [ ] Tripod
- [x] Geoprobe
- [ ] Air Track
- [ ] other

Backfill Material

Hydrated Bentonite Chips and Monterey Sand

Drilling Notes:

Drilled to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0		6"			ML	4" asphalt, 4" base material	
		18"	47	20.5		Medium stiff brown (7.5YR 4/2) SILT, no odor, massive, moist	1506
				40.5			1508
5		60"				END OF BORING No GW encountered	1512
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____

Rock Cored (Linear ft.) _____

Number of Samples _____

BORING NO. SSI-52

Field Tests

Dilatancy: R - Rapid S - Slow N - None

Toughness: L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High

Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:

M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-53

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	3/10/19
DRILLER	Gilbert Marbo	DATE FINISHED	3/10/19

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6600	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 36" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☐ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 1" base material	
		6"		<0.5	ML	Medium stiff brown (7.5YR 4/2) SILT, no odor, massive, moist	1535
		18"	32	<0.5			1540
		36"				END OF BORING No GW encountered Total depth = 3.0 feet bgs	1542
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. SSI-53

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-54

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PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/10/18
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	8/10/18

Elevation ft. Datum Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	Geoprobe	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 42" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☐ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						4" asphalt, 4" base material	
		6"			ML	medium stiff brown (7.5YR 4/2) SILT, no odor,	1451
		24"	38	<0.5		massive, moist	1453
		42"		<0.5			
						END OF BORING No GW encountered	1455
5						Total depth = 3.5 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-54

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-55
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	9/10/18
DRILLER	Gilbert	DATE FINISHED	9/10/18

Elevation ft. Datum Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6600	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 42" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☐ Track	☐ Air Track			
Type Sleeve	Acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	☒	6"		<0.5	ML	3" asphalt, 3" base material	1444
	☒	24"	39	<0.5		Medium stiff brown (7.5YR 4/2) SILT, no odor, massive, moist	1446
	☒	42"				END OF BORING No GW encountered Total depth = 3.5 feet bgs	1448
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-55

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-S6

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/10/19
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	8/10/19

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6625	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 42" bgs
Ouside Dia. (in.)	4"	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	acetate	☐ Track	☐ Air Track			
Type Sleeve		☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						3" asphalt, 2" base material	
		6"			ML	medium stiff dark brown (7.5YR3/2) SILT, no	1415
		SSP61		<0.5		odor, massive, moist	
		24"	40				1417
				<0.5			
		42"	—			END OF BORING No GW encountered	1419
						Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-S6

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-57

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/10/18
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	8/10/18

Elevation	ft	Datum	Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6600	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 42" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☐ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0					ML	glass cover Medium stiff grayish brown (10YR5/2) SILT, massive, micaceous, no odor, moist	
		18"	40	<0.5			1104
		30"		<0.5			1106
		42"		<0.5			1109
						END OF BORING No GW encountered Total depth = 3.5 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-57

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-S8

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/10/13
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	8/10/13

Elevation ft. Datum Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	6600	☒ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 60" bgs
Ouside Dia. (in.)	2.75	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	48	☐ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass layer	
	X	18"	47	0.5	ML	medium stiff grayish brown (10YR5/2) SILT, massive, micaceous, no odor, moist	1206
	X	42"		0.5			1207
5	X	60"		0.5			1210
						(END) OF BORING; No GW encountered Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-S8

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-59

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	9/10/14
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	9/10/14

Elevation ft. Datum

Boring Location

Boring Equipment

Type	6600
Ouside Dia. (in.)	2.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- [X] Truck
- [ ] ATV
- [ ] Track
- [ ] Skid
- [ ] Tripod
- [X] Geoprobe
- [ ] Air Track
- [ ] other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 60" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	X	18"		0.0	ML	medium stiff brown (7.5YR 4/2) SILT with fine sand, no odor, moist	1314
			47	0.0	ML	same as above, dark brown (7.5YR 3/2), without sand	
	X	42"		0.0			1316
5	X	60"					1318
						END OF BORING No GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-59

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-60

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/10/18
DRILLER	Gilbert	DATE FINISHED	8/10/18

Elevation	ft	Datum	Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6600	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 60" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☐ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0							
	18"			<0.5	ML	grass cover medium stiff brown (7.5YR4/2) SILT w/ gravel, no odor, moist	1351
			46	<0.5	ML	same as above, without gravel	
	42"			<0.5			1356
5	60"						1358
						END OF BORING No GW encountered Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID	
O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram	
	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary	
Overburden (Linear ft.)	
Rock Cored (Linear ft.)	
Number of Samples	

BORING NO. SSI-60

Field Tests Dilatancy: R - Rapid S - Slow N - None; Toughness: L - Low M - Medium H - High; Plasticity: N - Nonplastic L - Low M - Medium H - High; Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-61

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	8/10/18
DRILLER	~~Gilbert~~ Mario	DATE FINISHED	8/10/18

Elevation ft. | Datum | Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6600	☒ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 90" bgs
Ouside Dia. (in.)	2.375	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☐ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
	☒	18"	47	<0.5	ML	medium stiff brown (7.5YR4/2) SILT, no odor, massive, moist	1222
5	☒	60"	40	<0.5			1229
	☒	90"				END OF BORING No GW encountered Total depth = 7.5 feet bgs	1226
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-61

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS

TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-62

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	3/10/13
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	3/10/13

Elevation ft. Datum

Boring Location

Boring Equipment		Rig Make & Model			Backfill Material	Drilling Notes:
Type	6600	☑ Truck	☐ Tripod		Hydrated Bentonite Chips and Monterey Sand	Drilled to 90" bgs
Ouside Dia. (in.)	3.25	☐ ATV	☒ Geoprobe			
Length Sleeve (in)	48	☐ Track	☐ Air Track			
Type Sleeve	acetate	☐ Skid	☐ other			

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						4" light reddish brown (5YR 6/3) silty, fine SAND - fill -	
		18"	47	20.5	ML	medium stiff brown (7.5YR 5/2) SILT with gravel, massive, no odor, moist - fill - metal debris noted @ 1.0' bgs	925
				20.5	ML	medium stiff brown (7.5YR 5/2) SILT, massive, no odor, moist	
5		60"	40	20.5	SP	medium dense light brown (7.5YR 6/3) poorly graded fine SAND, nonplastic, no odor moist	927
		90"				END OF BORING No GW encountered Total depth = 7.5 feet bgs	929
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-62

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-63

Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	9/10/18
DRILLER	Gilbert Marco	DATE FINISHED	9/10/18

Elevation ft. Datum

Boring Location

Boring Equipment

Type	6600
Ouside Dia. (in.)	3.25
Length Sleeve (in)	48
Type Sleeve	acetate

Rig Make & Model

- [x] Truck
- [ ] ATV
- [ ] Track
- [ ] Skid
- [ ] Tripod
- [x] Geoprobe
- [ ] Air Track
- [ ] other

Backfill Material: Hydrated Bentonite Chips and Monterey Sand

Drilling Notes: Drilled to 36" bgs

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0	X	6"	34	0.0	ML	grass cover medium stiff brown (7.5YR4/2) SILT, no odor, mo. st	827
	X	18"		0.0			828
	X	36"		0.0			830
						END OF BORING — No GW encountered Total depth = 3.0 feet bgs	
5							
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____

BORING NO. SSI-63

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW: M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

PLACEWORKS — TEST BORING REPORT - Hand Auger / Geoprobe

BORING NO. SSI-64
Page 1 of 1

PROJECT	David Starr Jordan Senior High School	TPC FILE NO.	LASD1-32.7
LOCATION	2265 E. 103rd Street, Los Angeles, CA 90002		
CLIENT	Los Angeles Unified School District	FIELD REP.	M. Watson
CONTRACTOR	Interphase Environmental	DATE STARTED	9/10/19
DRILLER	~~Gilbert~~ Marco	DATE FINISHED	9/10/19

Elevation ft. Datum — Boring Location

Boring Equipment		Rig Make & Model		Backfill Material	Drilling Notes:
Type	6622	☒ Truck	☐ Tripod	Hydrated Bentonite Chips and Monterey Sand	Drilled to 60" bgs
Ouside Dia. (in.)	2.25	☐ ATV	☒ Geoprobe		
Length Sleeve (in)	43"	☐ Track	☐ Air Track		
Type Sleeve	acetate	☐ Skid	☐ other		

Depth (ft.)	Sample Depth (ft.)	Sample No.	Recovery (in.)	PID Reading ppm	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Time
0						grass cover	
		6"			ML	medium stiff dark brown (7.5YR3/2) and strong brown (7.5YR5/6) mottled SILT with gravel, no odor, moist	751
				LO.5	ML		
		36"	46			medium stiff brown (10YR4/3) SILT, no odor, micaceous, moist	753
				LO.5			
		60"			SP	medium dense yellowish brown (10YR5/4) poorly graded medium SAND, nonplastic, no odor, moist	755
5						END OF BORING N - GW encountered	
						Total depth = 5.0 feet bgs	
10							
15							
20							
25							
30							

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet: Bottom of Casing	Bottom of Hole	Water

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.) _____
Rock Cored (Linear ft.) _____
Number of Samples _____
BORING NO. SSI-64

Field Tests

Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

BORING LOG AND SAMPLE REVIEW:
M. Watson, PG#8177

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by PlaceWorks.

Appendix E. Survey Data

SOIL BORING LOCATIONS					
LOCATION	NORTHING (FEET)	EASTING (FEET)	LATITUDE (DD)	LONGITUDE (DD)	FS/NG (ELEVATION)
A	1802773.63	6491088.09	33.9458943	-118.2327045	111.02
B	1802773.13	6491106.33	33.9458931	-118.2326444	110.91
C	1802755.48	6491097.33	33.9458445	-118.2326739	110.76
JH-16	1802807.81	6491568.24	33.9459913	-118.2311217	111.38
JH-17	1802809.36	6491491.68	33.9459951	-118.2313741	111.24
JH-18	1802810.03	6491415.53	33.9459964	-118.2316252	111.29
JH-19	1802810.35	6491317.22	33.9459967	-118.2319493	111.20
JH-21	1802769.23	6491097.16	33.9458823	-118.2326746	110.84
JH-22	1802766.72	6491198.68	33.9458760	-118.2323399	110.73
JH-23	1802765.64	6491295.53	33.9458737	-118.2320205	110.74
JH-24	1802766.44	6491402.70	33.9458765	-118.2316672	110.78
JH-25	1802758.22	6491503.57	33.9458546	-118.2313345	110.76
JH-26	1802704.91	6491533.26	33.9457083	-118.2312362	109.93
JH-27	1802704.96	6491431.03	33.9457078	-118.2315733	110.10
JH-28	1802703.78	6491328.27	33.9457039	-118.2319121	110.05
JH-29	1802703.82	6491295.18	33.9457038	-118.2320212	109.98
JH-31	1802665.84	6491096.69	33.9455982	-118.2326754	109.41
SSI-2	1802598.26	6491701.59	33.9454163	-118.2306805	110.71
SSI-2-E	1802595.79	6491731.79	33.9454097	-118.2305809	110.81
SSI-2-N/4-S	1802627.85	6491700.84	33.9454976	-118.2306831	110.95
SSI-2-S	1802566.76	6491700.66	33.9453297	-118.2306833	110.42
SSI-2-W	1802598.22	6491671.46	33.9454160	-118.2307798	110.52
SSI-3	1802659.92	6491626.49	33.9455853	-118.2309285	110.58
SSI-3-E/4-W	1802658.23	6491657.50	33.9455808	-118.2308263	110.83
SSI-3-N	1802688.89	6491620.31	33.9456648	-118.2309491	110.74
SSI-3-S	1802630.20	6491629.98	33.9455036	-118.2309168	110.11
SSI-3W	1802657.75	6491600.05	33.9455791	-118.2310157	109.89
SSI-4	1802658.23	6491699.60	33.9455811	-118.2306875	111.09
SSI-4-E/5-W	1802652.99	6491767.29	33.9455671	-118.2304643	111.12
SSI-4-N	1802689.75	6491699.17	33.9456677	-118.2306891	111.09
SSI-5-E	1802649.90	6491829.05	33.9455590	-118.2302606	111.39
SSI-5-N	1802678.99	6491799.31	33.9456388	-118.2303589	111.33
SSI-5-S	1802619.19	6491801.53	33.9454744	-118.2303511	111.08
SSI-6	1802751.15	6491802.44	33.9458371	-118.2303491	112.27
SSI-6-E	1802753.20	6491832.97	33.9458429	-118.2302485	112.54
SSI-6-N/10-S	1802789.45	6491829.19	33.9459425	-118.2302612	112.57
SSI-6-S	1802723.41	6491802.23	33.9457608	-118.2303496	111.97
SSI-6-W	1802750.47	6491772.12	33.9458350	-118.2304491	111.93

SSI-7	1802750.42	6491698.00	33.9458344	-118.2306935	111.52
SSI-7-E	1802750.49	6491730.74	33.9458348	-118.2305855	111.44
SSI-7-N	1802781.95	6491697.83	33.9459210	-118.2306942	111.76
SSI-7-S	1802719.90	6491699.09	33.9457505	-118.2306896	111.23
SSI-7-W	1802750.37	6491668.34	33.9458341	-118.2307912	111.42
SSI-8	1802750.90	6491592.80	33.9458351	-118.2310403	110.94
SSI-8-E	1802750.07	6491623.22	33.9458330	-118.2309400	111.43
SSI-8-N/15-S	1802781.94	6491604.26	33.9459204	-118.2310027	111.60
SSI-8-S	1802720.43	6491591.36	33.9457513	-118.2310448	110.59
SSI-8-W	1802752.00	6491567.37	33.9458379	-118.2311241	110.77
SSI-10	1802810.09	6491829.72	33.9459992	-118.2302596	112.52
SSI-12	1802810.76	6491775.40	33.9460007	-118.2304387	111.98
SSI-12-S/13-S	1802791.06	6491772.56	33.9459465	-118.2304479	112.06
SSI-13	1802807.28	6491770.62	33.9459911	-118.2304544	112.07
SSI-13-W	1802810.63	6491741.63	33.9460001	-118.2305500	111.69
SSI-14	1802811.51	6491623.71	33.9460018	-118.2309388	111.76
SSI-14-E	1802811.14	6491654.99	33.9460010	-118.2308357	111.77
SSI-14-S	1802781.78	6491623.16	33.9459201	-118.2309404	111.53
SSI-15	1802812.13	6491604.74	33.9460034	-118.2310014	111.47
SSI-17-E	1802808.38	6491521.77	33.9459926	-118.2312749	111.39
SSI-17-W	1802810.07	6491462.17	33.9459968	-118.2314715	111.29
SSI-18-E	1802809.97	6491445.44	33.9459964	-118.2315266	111.24
SSI-18-W	1802809.71	6491385.76	33.9459953	-118.2317234	111.38
SSI-19-E	1802809.74	6491346.87	33.9459952	-118.2318516	111.36
SSI-19-W	1802810.07	6491286.75	33.9459957	-118.2320498	111.28
SSI-28-E	1802703.20	6491358.14	33.9457025	-118.2318136	109.97
SSI-28-N	1802733.42	6491328.67	33.9457854	-118.2319110	110.42
SSI-28-W/29-E	1802703.50	6491313.36	33.9457031	-118.2319613	110.08
SSI-29-N	1802733.78	6491295.99	33.9457861	-118.2320188	110.43
SSI-29-W	1802704.27	6491265.44	33.9457049	-118.2321193	110.03
SSI-30-N	1802716.45	6491197.66	33.9457379	-118.2323428	110.24
SSI-30-S	1802656.73	6491199.25	33.9455738	-118.2323371	109.71
SSI-30-W	1802688.01	6491168.01	33.9456596	-118.2324404	109.70
SSI-31-E	1802665.66	6491126.61	33.9455979	-118.2325767	109.35
SSI-31-N	1802695.58	6491096.32	33.9456799	-118.2326768	110.02
SSI-31-S	1802655.45	6491096.62	33.9455696	-118.2326755	109.32
SSI-31-W	1802665.30	6491066.62	33.9455965	-118.2327745	109.82
SSI-32	1802760.25	6491056.08	33.9458573	-118.2328100	111.41
SSI-33	1802785.02	6491056.02	33.9459254	-118.2328104	111.63
SSI-34	1802814.58	6491055.98	33.9460066	-118.2328107	111.66
SSI-35	1802814.90	6491076.32	33.9460077	-118.2327437	111.54
SSI-36 40'DEPTH	1802814.15	6491096.51	33.9460057	-118.2326771	111.35

SSI-36 5'DEPTH	1802814.33	6491096.85	33.9460062	-118.2326760	111.34
SSI-37	1802814.29	6491137.19	33.9460064	-118.2325430	111.27
SSI-38	1802813.17	6491172.09	33.9460035	-118.2324279	111.29
SSI-39	1802812.50	6491206.93	33.9460019	-118.2323130	111.38
SSI-40	1802767.55	6491169.30	33.9458781	-118.2324367	110.77
SSI-41	1802726.60	6491133.31	33.9457654	-118.2325551	110.36
SSI-42	1802722.54	6491848.56	33.9457587	-118.2301968	112.18
SSI-43	1802692.79	6491849.17	33.9456770	-118.2301946	112.10
SSI-44	1802628.26	6491850.27	33.9454997	-118.2301905	111.43
SSI-45	1802591.59	6491851.34	33.9453989	-118.2301867	111.21
SSI-46	1802560.91	6491851.87	33.9453146	-118.2301847	110.93

Professional's Name:
Armando D. Dupont

Professional's License Type:
Professional Land Surveyor

Professional's License Number:
7780

NOTE:
RISER_HT - RISER HEIGHT
RISER HEIGHT: THE MEASURED DISTANCE FROM GROUND SURFACE TO TOP OF WELL CASING
DD: DECIMAL DEGREES
NG: NATURAL GROUND
FS: FINISHED SURFACE

SURVEY DATE: JUNE 18, 2018

BENCHMARK:
THE ELEVATIONS SHOWN HEREON ARE BASED UPON STATIC GPS OBSERVATION,
HOLDING THE LEICA S.N.N.A. C.O.R.S. "CASF"; ELEVATION = 157.99 FEET (NAVD 88)

COORDINATES:
THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM (CCS 83),
ZONE 5, 1983 DATUM, DEFINED BY SECTIONS 8801 TO 8819 OF THE CALIFORNIA PUBLIC RESOURCES CODE
BASED UPON STATIC GPS OBSERVATION, HOLDING THE LEICA S.N.N.A. C.O.R.S. "CASF"

GLOBAL_ID	FIELD_PT_NAME	ELEV_SURVEY_DATE	ELEVATION (TOC)	ELEV_METHOD	ELEV_DATUM	ELEV_ACC_VAL	ELEV_SURVEY_ORG	RISER_HT	ELEV_DESC
	A	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	B	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	C	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-16	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-17	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-18	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-19	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-21	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-22	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-23	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-24	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-25	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-26	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-27	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-28	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-29	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	JH-31	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-2	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-2-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-2-N/4-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-2-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-2-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-3	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-3-E/4-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-3-N	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-3-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-3W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-4	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-4-E/5-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-4-N	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-5-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-5-N	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-5-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-6	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-6-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-6-N/10-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-6-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-6-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-7	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-7-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-7-N	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-7-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-7-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-8	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-8-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-8-N/15-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-8-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-8-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-10	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-12	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-12-S/13-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-13	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"

	SSI-13-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-14	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-14-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-14-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-15	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-17-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-17-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-18-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-18-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-19-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-19-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-28-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-28-N	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-28-W/29-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-29-N	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-29-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-30-N	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-30-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-30-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-31-E	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-31-N	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-31-S	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-31-W	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-32	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-33	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-34	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-35	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-36 40'DEPTH	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-36 5'DEPTH	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-37	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-38	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-39	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-40	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-41	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-42	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-43	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-44	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-45	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"
	SSI-46	06/18/2018		CGPS	88	0.3	CAL VADA SURVEYING, INC.		S.N.N.A. C.O.R.S. "CASF"

Appendix F. Waste Manifests

NO. 742814

NON-HAZARDOUS WASTE DATA FORM

BESI # 296569

GENERATOR

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - DAVID STARR JORDAN SENIOR HIGH SCHOOL
2265 EAST 103RD STREET
LOS ANGELES, CA 90002

Generator's Phone: 213-241-3199

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other
Quantity 01

Container type transported to receiving facility:
☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other
Quantity 1 Volume 10 gallons

WASTE DESCRIPTION NON-HAZARDOUS WATER
GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%
2. TPH		<1%
3.		
4.		

Waste Profile
PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER
HANDLING INSTRUCTIONS: PLEASE WEAR ALL APPROPRIATE PROTECTIVE CLOTHING

Generator Printed/Typed Name: Andrew Moduano For LAUSD
Signature: Andrew Mod
Month 07 Day 27 Year 18

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE
Phone#: 949-460-6200

Transporter 1 Printed/Typed Name: Jose Ferreyra
Signature:
Month 07 Day 27 Year 18

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC.
Phone#: 714-990-6666

Transporter 2 Printed/Typed Name: Juan Segura
Signature:
Month 08 Day 16 Year 18

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone#: 310-537-7100

Printed/Typed Name: Rocky Simeon
Signature:
Month 08 Day 18 Year 18

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

2265 EAST
1873500

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /			A07	49157	12002

Generator and/or Consultant

Generator's Name and Billing Address: L.A.U.S.D. - OEHS 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA 90017	Generator's Phone #: 213-241-3199 Person to Contact: FAX#:	 Customer Account Number
Consultant's Name and Billing Address:	Consultant's Phone #: Person to Contact: FAX#:	 Customer Account Number
Generation Site (Transport from): *(name & address)* LAUSD - DAVID STARR JORDAN SENIOR HIGH SCHOOL 2265 EAST 103RD STREET LOS ANGELES, CA 90002	Site Phone #: Person to Contact: FAX#:	
Designated Facility (Transport to): *(name & address)* SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001 Person to Contact: JOE PROVANSAL FAX#: (760) 246-8004	
Transporter Name and Mailing Address: BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 297340	Transporter's Phone #: 949-460-5200 Person to Contact: LARRY MOOTHART FAX#: 949-460-5210	CAR000183913 450647 Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	02 DM	Soil	39420	38270	1150
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					.59

List any exception to items listed above: Scale Ticket # 141330

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐	Signature and date:	Month	Day	Year
Andrea Mudrow for LAUSD		8	26	18

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
Jose Fenoy		08	27	18

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
J. PROVANSAL	9-10-18

Please print or type.

2265 EAST / 1886878

TRANSPORTER COPY

NO. 743435

NON-HAZARDOUS WASTE DATA FORM

BESI # 297340

GENERATOR

Generator's Name and Mailing Address
L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Site Address (if different than mailing address)
LAUSD - DAVID STARR JORDAN SENIOR HIGH SCHOOL
2265 EAST 103RD STREET
LOS ANGELES, CA 90002

Generator's Phone: 213-241-3199

Container type removed from site: ☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck ☐ Other

Quantity 01

Container type transported to receiving facility: ☐ Drums ☒ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck ☐ Other

Quantity 1 Volume 2 gallons

WASTE DESCRIPTION NON-HAZARDOUS WATER

GENERATING PROCESS WELL PURGING / DECON WATER

COMPONENTS OF WASTE	PPM	%	COMPONENTS OF WASTE	PPM	%
1. WATER		99-100%	3.		
2. TPH		<1%	4.		

Waste Profile ______ PROPERTIES: pH 7-10 ☐ SOLID ☒ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER ______

HANDLING INSTRUCTIONS: ______

Generator Printed/Typed Name: Andrew Modurno for LAUSD Signature: [signature] Month/Day/Year: 8/26/18

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE Phone# 949-460-6200

Transporter 1 Printed/Typed Name: Jose Ferreira Signature: [signature] Month/Day/Year: 08/27/18

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name: NIETO & SONS TRUCKING, INC. Phone# 714-990-6855

Transporter 2 Printed/Typed Name: Miguel Carranza Signature: [signature] Month/Day/Year: 8/30/18

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA ST.
COMPTON, CA 90222

Phone# 310-537-7100

Printed/Typed Name: Sophia P. Sray Signature: [signature] Month/Day/Year: 08/30/18

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form

2265 EAST
1881908

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
8/27/18		184929	A07	49157	9011

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #: / Person to Contact: / FAX#:	Customer Account Number
L.A.U.S.D. - OEHS 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA 90017	213-241-3199	

Consultant's Name and Billing Address:	Consultant's Phone #: / Person to Contact: / FAX#:	Customer Account Number

Generation Site (Transport from): *(name & address)*	Site Phone #: / Person to Contact: / FAX#:
LAUSD - DAVID STARR JORDAN SENIOR HIGH SCHOOL 2265 EAST 103RD STREET LOS ANGELES, CA 90002	

Designated Facility (Transport to): *(name & address)*	Facility Phone #: / Person to Contact: / FAX#:
SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	(800) 862-8001 JOE PROVANSAL (760) 246-8004

Transporter Name and Mailing Address:	Transporter's Phone #: / Person to Contact: / FAX#:	Customer Account Number
BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 298569	949-460-5200 LARRY MOOTHART 949-460-5210	CAR000183913 450647

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	04 DM	Soil	39460	37160	2360
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					1.18

List any exception to items listed above: Scale Ticket # 1115

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐	Signature and date:	Month	Day	Year
Andrew Medrano For LAUSD		7	27	18

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
Jose Ferreira		07	27	18

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
J. PROVANSAL	8-27-18

Please print or type.

2265EAST/1878173

TRANSPORTER COPY

Appendix G. Laboratory Reports

American Environmental Testing Laboratory Inc.
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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**49**
Date Received	**06/11/2018**
Date Reported	**06/19/2018**

Job Number	Order Date	Client
92916	06/11/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 47 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 87937

AETL JOB No. 92916

Page 1 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior High School, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-10-48"	92916.01	6/11/18	0750	Soil	glass jar	ice
2	SSI-10-60"	92916.02		0753			
3	SSI-12-48"	92916.03		0820			
4	SSI-12-60"	92916.04		0822			
5	DUP1	92916.05					
6	DUP2	92916.06					
7	SSI-13-48"	92916.07		0840			
8	SSI-13-60"	92916.08		0843			
9	SSI-13-W-18"	92916.09		0853			
10	SSI-13-W-36"	92916.10		0855			
11	SSI-13-W-60"	92916.11		0859			
12	SSI-14-E-6"	92916.12		0908			
13	SSI-14-E-18"	92916.13		0910			
14	SSI-14-E-36"	92916.14		0912			
15	SSI-14-E-48"	92916.15		0914			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead	8015M (MTBE)	HOLD
X			
X			X
X			X
X			X
X			X
X			X
X			
X			X
X			
X			
X			
X			
X			
X			
X			

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. Martinez
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/11/18 Time: 1800
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CHRISTIAN PORTILLA	Printed Name:	Printed Name:
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/11/18 Time: 1800

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

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CHAIN OF CUSTODY RECORD

№ 87938

AETL JOB No. 92916

Page 2 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS 2265 E. 103rd St, LA, CA 90002
PO #:

ANALYSIS REQUESTED

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	Hold
1	SSI-14-E-60"	92916.16	6/11/18	0915	soil	glass jar	ice			X
2	SSI-14-48"	92916.17		0930				X		
3	SSI-14-60"	92916.18		0933						X
4	SSI-15-6"	92916.19		0938				X		
5	DUP3	92916.20						X		
6	SSI-15-18"	92916.21		0942				X	X	
7	SSI-15-36"	92916.22		0944				X		
8	SSI-15-48"	92916.23		0945				X		
9	SSI-15-60"	92916.24		0947						X
10	SSI-17E-6"	92916.25		1007				X		
11	DUP4	92916.26						X		
12	SSI-17-E-24"	92916.27		1012						X
13	SSI-17W-6"	92916.28		1027				X		
14	SSI-17W-24"	92916.29		1030						X
15	SSI-18E-6"	92916.30		1115				X		

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME: [X] NORMAL [ ] RUSH [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [ ] 3 DAYS

DATA DELIVERABLE REQUIRED: [ ] HARD COPY [X] PDF [ ] GEOTRACKER (GLOBAL ID) ______ [ ] OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 6/11/18 Time: 1607	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: C. [illegible] Date: 6/11/18 Time: 1800
RECEIVED BY	RECEIVED BY: Signature: [signature] Printed Name: CARNATION [illegible] Date: 6/11/18 Time: 1607	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: Printed Name: [signature] Date: 06/11/18 Time: 1800

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

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CHAIN OF CUSTODY RECORD

№ 87941

AETL JOB No. 92916

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B, ONTARIO, CA 91764
PHONE: 909 9894449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LASD 1-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS
PO #:
2265 E. 103rd St, LA, CA 90002

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-18-E-24"	92916.31	6/11/18	1120	S-I	glass jar	ice
2	SSI-18W-6"	92916.32		1129			
3	SSI-18-W-24"	92916.33		1137			
4	SSI-19-E-18"	92916.34		1143			
5	DUP5	92916.35					
6	SSI-19-E-30"	92916.36		1145			
7	SSI-19-W-18"	92916.37		1207			
8	SSI-19-W-30"	92916.38		1210			
9	SSI-39-6"	92916.39		1237			
10	SSI-39-18"	92916.40		1239			
11	SSI-39-36"	92916.41		1241			
12	SSI-39-48"	92916.42		1243			
13	SSI-39-60"	92916.43		1245			
14	SSI-38-6"	92916.44		1258			
15	SSI-38-18"	92916.45		1300			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead	Hold
X		X
		X
X	X	
		X
X		
		X
X	X	
X	X	
X	X	
		X
		X
X	X	
X	X	

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. RAGUILAS
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/11/18 Time: 1800
RECEIVED BY: 1.	**RECEIVED BY: 2**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CHARLES H RAGUILAS	Printed Name:	Printed Name: A.T.
Date: 6/11/18 Time: 1607	Date: Time:	Date: 06/14/18 Time: 1800

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CHAIN OF CUSTODY RECORD

№ 87936

AETL JOB No. 92916

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS 2265 E. 103rd St, LA, CA 90002
PO #:

ANALYSIS REQUESTED

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	8015M(5035) TPH gas	8015M TPH-D	8015M TPH-extended chain					Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-38-36"	92916.46	6/11/18	1302	Soil	glass jar	ice	X	X									
2	SSI-38-48"	92916.47	↓	1304	↓	↓	↓										X	
3	SSI-38-60"	92916.48	↓	1306	↓	↓	↓										X	
4	SSI-37-6"	92916.49	↓	1317	↓	↓	↓	X	X									
5	SSI-37-18"	92916.50	↓	1320	↓	↓	↓	X	X									
6	SSI-37-36"	92916.51	↓	1322	↓	↓	↓	X	X									
7	SSI-37-48"	92916.52	↓	1323	↓	↓	↓										X	
8	SSI-37-60"	92916.53	↓	1324	↓	↓	↓										X	
9	SSI-36-6"	92916.54	↓	1339	↓	↓	↓	X	X									
10	SSI-36-18"	92916.55	↓	1341	↓	↓	↓	X	X									
11	SSI-36-36"	92916.56	↓	1343	↓	↓	↓	X	X									
12	SSI-36-48"	92916.57	↓	1345	↓	↓	↓										X	
13	SSI-36-60"	92916.58	↓	1356	↓	1 jar, 4 VOA	ice/5035			X	X	X						
14	SSI-35-6"	92916.59	↓	1406	↓	glass jar	ice	X	X									
15	DUP6	92916.60	↓		↓	↓	↓	X	X									

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PADILLA
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/11/18 Time: 1800

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: CATALINA PADILLA	Printed Name:	Printed Name: [signature]
Date: 6/11/18 Time: 1607	Date: Time:	Date: 06/11/18 Time: 1800

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

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CHAIN OF CUSTODY RECORD

103687

AETL JOB No. 92916

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LA51-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior High School, 2265 E. 103rd St, LA, CA 90002
PO#:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-35-18"	92916.61	6/11/18	1408	Soil	glass jar	ice
2	SSI-35-36"	92916.62		1410			
3	SSI-35-48"	92916.63		1411			
4	SSI-35-60"	92916.64		1413			
5	DUP-7	92916.65					
6	SSI-34-6"	92916.66		1423			
7	SSI-34-18"	92916.67		1424			
8	SSI-34-36"	92916.68		1426			
9	SSI-34-48"	92916.69		1428			
10	SSI-34-60"	92916.70		1430			
11	SSI-33-6"	92916.71		1437			
12	SSI-33-18"	92916.72		1442			
13	SSI-33-36"	92916.73		1444			
14	SSI-33-48"	92916.74		1446			
15	SSI-33-60"	92916.75		1448			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead	HOLD
X	X	
X	X	
		X
		X
X	X	
X	X	
X	X	
		X
		X
X	X	
X	X	
X	X	
		X
		X

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. Morris
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/11/18 Time: 1800
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name: CATALINA RAMIREZ	Printed Name:	Printed Name:
Date: 6/11/18 Time: 1607	Date: Time:	Date: 06/14/18 Time: 18:00

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

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COOLER RECEIPT FORM

Client Name: Placeworks
Project Name:
AETL Job Number: 92916
Date Received: 06/11/18 Received by: Astin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°C, No 2: _____, No 3: _____
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): 1x5035Kit
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify): $NaHSO_4H_2O$

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/11/2018
Date Reported 06/19/2018

Job Number	Order Date	Client
92916	06/11/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 75 samples with the following specification on 06/11/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92916.01	SSI-10-48"	06/11/2018	Soil	1
92916.03	SSI-12-48"	06/11/2018	Soil	1
92916.05	DUP1	06/11/2018	Soil	1
92916.07	SSI-13-48"	06/11/2018	Soil	1
92916.09	SSI-13-W-18"	06/11/2018	Soil	1
92916.10	SSI-13-W-36"	06/11/2018	Soil	1
92916.12	SSI-14-E-6"	06/11/2018	Soil	1
92916.14	SSI-14-E-36"	06/11/2018	Soil	1
92916.15	SSI-14-E-48"	06/11/2018	Soil	1
92916.17	SSI-14-48"	06/11/2018	Soil	1
92916.19	SSI-15-6"	06/11/2018	Soil	1
92916.20	DUP3	06/11/2018	Soil	1
92916.22	SSI-15-36"	06/11/2018	Soil	1
92916.23	SSI-15-48"	06/11/2018	Soil	1
92916.25	SSI-17-E-6"	06/11/2018	Soil	1
92916.26	DUP4	06/11/2018	Soil	1
92916.28	SSI-17W-6"	06/11/2018	Soil	1
92916.30	SSI-18E-6"	06/11/2018	Soil	1
92916.32	SSI-18-W-6"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/18/2018	2	Normal	mg/Kg

92916.02	SSI-10-60"	06/11/2018	Soil	1
92916.04	SSI-12-60"	06/11/2018	Soil	1
92916.06	DUP2	06/11/2018	Soil	1
92916.08	SSI-13-60"	06/11/2018	Soil	1

Continued

American Environmental Testing Laboratory Inc.
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2850 Inland Empire Blvd. Suite B
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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/11/2018
Date Reported 06/19/2018

Job Number	Order Date	Client
92916	06/11/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

92916.11	SSI-13-W-60"	06/11/2018	Soil	1
92916.16	SSI-14-E-60"	06/11/2018	Soil	1
92916.18	SSI-14-60"	06/11/2018	Soil	1
92916.24	SSI-15-60"	06/11/2018	Soil	1
92916.27	SSI-17-E-24"	06/11/2018	Soil	1
92916.29	SSI-17W-24"	06/11/2018	Soil	1
92916.31	SSI-18-E-24"	06/11/2018	Soil	1
92916.33	SSI-18-W-24"	06/11/2018	Soil	1
92916.36	SSI-19-E-30"	06/11/2018	Soil	1
92916.38	SSI-19-W-30"	06/11/2018	Soil	1
92916.42	SSI-39-48"	06/11/2018	Soil	1
92916.43	SSI-39-60"	06/11/2018	Soil	1
92916.47	SSI-38-48"	06/11/2018	Soil	1
92916.48	SSI-38-60"	06/11/2018	Soil	1
92916.52	SSI-37-48"	06/11/2018	Soil	1
92916.53	SSI-37-60"	06/11/2018	Soil	1
92916.57	SSI-36-48"	06/11/2018	Soil	1
92916.63	SSI-35-48"	06/11/2018	Soil	1
92916.64	SSI-35-60"	06/11/2018	Soil	1
92916.65	DUP7	06/11/2018	Soil	1
92916.69	SSI-34-48"	06/11/2018	Soil	1
92916.70	SSI-34-60"	06/11/2018	Soil	1
92916.74	SSI-33-48"	06/11/2018	Soil	1
92916.75	SSI-33-60"	06/11/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
ARCHIVE	06/18/2018	2	Normal	--

92916.13	SSI-14-E-18"	06/11/2018	Soil	1
92916.21	SSI-15-18"	06/11/2018	Soil	1
92916.39	SSI-39-6"	06/11/2018	Soil	1

Continued

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Project ID: LASD1-32.7
Date Received 06/11/2018
Date Reported 06/19/2018

Job Number	Order Date	Client
92916	06/11/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

92916.40	SSI-39-18"	06/11/2018	Soil	1
92916.41	SSI-39-36"	06/11/2018	Soil	1
92916.44	SSI-38-6"	06/11/2018	Soil	1
92916.45	SSI-38-18"	06/11/2018	Soil	1
92916.46	SSI-38-36"	06/11/2018	Soil	1
92916.49	SSI-37-6"	06/11/2018	Soil	1
92916.50	SSI-37-18"	06/11/2018	Soil	1
92916.51	SSI-37-36"	06/11/2018	Soil	1
92916.54	SSI-36-6"	06/11/2018	Soil	1
92916.55	SSI-36-18"	06/11/2018	Soil	1
92916.56	SSI-36-36"	06/11/2018	Soil	1
92916.59	SSI-35-6"	06/11/2018	Soil	1
92916.60	DUP6	06/11/2018	Soil	1
92916.61	SSI-35-18"	06/11/2018	Soil	1
92916.62	SSI-35-36"	06/11/2018	Soil	1
92916.66	SSI-34-6"	06/11/2018	Soil	1
92916.67	SSI-34-18"	06/11/2018	Soil	1
92916.68	SSI-34-36"	06/11/2018	Soil	1
92916.71	SSI-33-6"	06/11/2018	Soil	1
92916.72	SSI-33-18"	06/11/2018	Soil	1
92916.73	SSI-33-36"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/18/2018	2	Normal	mg/Kg
(6020) ^ PB	06/18/2018	2	Normal	mg/Kg

92916.34	SSI-19-E-18"	06/11/2018	Soil	1
92916.35	DUP5	06/11/2018	Soil	1
92916.37	SSI-19-W-18"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	06/18/2018	2	Normal	mg/Kg

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Project ID: LASD1-32.7
Date Received 06/11/2018
Date Reported 06/19/2018

Job Number	Order Date	Client
92916	06/11/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92916.58	SSI-36-60"	06/11/2018	Soil	5

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(M8015D) ^ C13-C40	06/18/2018	2	Normal	mg/Kg
(M8015G)	06/18/2018	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061218OB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			5030				
Date Analyzed			06/12/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		101				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061218OB1

Our Lab I.D.			**92916.58**				
Client Sample I.D.			SSI-36-60"				
Date Sampled			**06/11/2018**				
Date Prepared			**06/12/2018**				
Preparation Method			**5030**				
Date Analyzed			**06/13/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	**5**	**50**	**53.2**				
Our Lab I.D.			**92916.58**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	**75-125**		**98.4**				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061218DB3

Our Lab I.D.			Method Blank	**92916.58**			
Client Sample I.D.				SSI-36-60"			
Date Sampled				**06/11/2018**			
Date Prepared			**06/12/2018**	**06/12/2018**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**06/12/2018**	**06/12/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	**1.0**	**5.0**	**ND**	**3,760**			
TPH as Heavy Hydrocarbons (C23-C40)	**1.0**	**5.0**	**ND**	**295**			
TPH Total as Diesel and Heavy HC.C13-C40	**1.0**	**5.0**	**ND**	**4,060**			
Our Lab I.D.			Method Blank	**92916.58**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	**75-125**		**97.8**	**105**			

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C2

Our Lab I.D.			92916.01	92916.03	92916.05	92916.07	
Client Sample I.D.			SSI-10-48"	SSI-12-48"	DUP1	SSI-13-48"	
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	
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	12.5	67.7	57.9	11.3	

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C2

Our Lab I.D.			92916.09				
Client Sample I.D.			SSI-13-W-18"				
Date Sampled			06/11/2018				
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.22				

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C2

Our Lab I.D.			92916.10	92916.12	92916.13	92916.14	92916.15
Client Sample I.D.			SSI-13-W-36"	SSI-14-E-6"	SSI-14-E-18"	SSI-14-E-36"	SSI-14-E-48"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.50	1.00	96.5	11.2	8.75	12.1	23.1

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C3

Our Lab I.D.			92916.17	92916.19	92916.20		
Client Sample I.D.			SSI-14-48"	SSI-15-6"	DUP3		
Date Sampled			06/11/2018	06/11/2018	06/11/2018		
Date Prepared			06/12/2018	06/12/2018	06/12/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/14/2018	06/14/2018	06/14/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.50	1.00	46.1	15.5	10.8		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C3

Our Lab I.D.			92916.21				
Client Sample I.D.			SSI-15-18"				
Date Sampled			06/11/2018				
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	90.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C3

Our Lab I.D.			92916.22				
Client Sample I.D.			SSI-15-36"				
Date Sampled			06/11/2018				
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	144				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C3

Our Lab I.D.			92916.23				
Client Sample I.D.			SSI-15-48"				
Date Sampled			06/11/2018				
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	54.8				

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C3

Our Lab I.D.			92916.25				
Client Sample I.D.			SSI-17-E-6"				
Date Sampled			06/11/2018				
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.24				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C3

Our Lab I.D.			92916.26	92916.28	92916.30		
Client Sample I.D.			DUP4	SSI-17W-6"	SSI-18E-6"		
Date Sampled			06/11/2018	06/11/2018	06/11/2018		
Date Prepared			06/12/2018	06/12/2018	06/12/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/14/2018	06/14/2018	06/14/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.50	1.00	4.30	23.8	11.1		

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C4

Our Lab I.D.			92916.32	92916.39	92916.40	92916.41	92916.44
Client Sample I.D.			SSI-18-W-6"	SSI-39-6"	SSI-39-18"	SSI-39-36"	SSI-38-6"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.50	1.00	20.2	10.7	4.35	2.45	17.5

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C4

Our Lab I.D.			92916.45				
Client Sample I.D.			SSI-38-18"				
Date Sampled			06/11/2018				
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	5.39				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C5

Our Lab I.D.			92916.46	92916.49	92916.50	92916.51	92916.54
Client Sample I.D.			SSI-38-36"	SSI-37-6"	SSI-37-18"	SSI-37-36"	SSI-36-6"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.50	1.00	3.13	4.70	3.49	2.55	3.76

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C5

Our Lab I.D.			92916.55	92916.56	92916.59	92916.60	
Client Sample I.D.			SSI-36-18"	SSI-36-36"	SSI-35-6"	DUP6	
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	
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	3.12	2.59	4.46	4.61	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C6

Our Lab I.D.			92916.61	92916.62	92916.66	92916.67	92916.68
Client Sample I.D.			SSI-35-18"	SSI-35-36"	SSI-34-6"	SSI-34-18"	SSI-34-36"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.50	1.00	5.53	2.36	4.30	5.18	2.87

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C6

Our Lab I.D.			92916.71	92916.72	92916.73		
Client Sample I.D.			SSI-33-6"	SSI-33-18"	SSI-33-36"		
Date Sampled			06/11/2018	06/11/2018	06/11/2018		
Date Prepared			06/12/2018	06/12/2018	06/12/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/14/2018	06/14/2018	06/14/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.50	1.00	5.43	5.35	2.20		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C2

Our Lab I.D.			92916.13				
Client Sample I.D.			SSI-14-E-18"				
Date Sampled			06/11/2018				
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	38.8				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C3

Our Lab I.D.			92916.21				
Client Sample I.D.			SSI-15-18"				
Date Sampled			06/11/2018				
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	252				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C4

Our Lab I.D.			92916.34	92916.35	92916.37	92916.39	92916.40
Client Sample I.D.			SSI-19-E-18"	DUP5	SSI-19-W-18"	SSI-39-6"	SSI-39-18"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.50	5	9.56	11.3	21.8	44.9	43.5

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C4

Our Lab I.D.			92916.41	92916.44	92916.45		
Client Sample I.D.			SSI-39-36"	SSI-38-6"	SSI-38-18"		
Date Sampled			06/11/2018	06/11/2018	06/11/2018		
Date Prepared			06/12/2018	06/12/2018	06/12/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/14/2018	06/14/2018	06/14/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.50	5	4.52	72.8	119		

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Site

David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C5

Our Lab I.D.			92916.46	92916.49	92916.50	92916.51	92916.54
Client Sample I.D.			SSI-38-36"	SSI-37-6"	SSI-37-18"	SSI-37-36"	SSI-36-6"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.50	5	5.15	33.8	10.9	3.86	26.1

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C5

Our Lab I.D.			92916.55	92916.56	92916.59	92916.60	
Client Sample I.D.			SSI-36-18"	SSI-36-36"	SSI-35-6"	DUP6	
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	
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**	
Lead	2.50	5	18.4	17.7	22.9	25.9	

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/12/2018				
Preparation Method			3050B				
Date Analyzed			06/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C6

Our Lab I.D.			92916.61	92916.62	92916.66	92916.67	92916.68
Client Sample I.D.			SSI-35-18"	SSI-35-36"	SSI-34-6"	SSI-34-18"	SSI-34-36"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.50	5	55.1	5.48	23.7	271	9.72

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C6

Our Lab I.D.			92916.71	92916.72	92916.73		
Client Sample I.D.			SSI-33-6"	SSI-33-18"	SSI-33-36"		
Date Sampled			06/11/2018	06/11/2018	06/11/2018		
Date Prepared			06/12/2018	06/12/2018	06/12/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/14/2018	06/14/2018	06/14/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.50	5	23.5	53.8	8.13		

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C2; Dup or Spiked Sample: 92916.01; LCS: Clean Sand; QC Prepared: 06/12/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**12.5**	**1.00**	**13.0 #**	**50.0**	**1.00**	**13.1 #**	**60.0**	**18.2**	**80-120**	**<15**

QC Batch No: 0612181C2; Dup or Spiked Sample: 92916.01; LCS: Clean Sand; QC Prepared: 06/12/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.00**	**100**	**1.00**	**0.972**	**97.2**	**2.8**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C3; Dup or Spiked Sample: 92916.17; LCS: Clean Sand; LCS Prepared: 06/12/2018; LCS Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.04**	**104**	**1.00**	**0.995**	**99.5**	**4.4**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C4; Dup or Spiked Sample: 92916.32; LCS: Clean Sand; LCS Prepared: 06/12/2018; LCS Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.00**	**100**	**1.00**	**1.01**	**101**	**<1**	**80-120**	**<15**	

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David Starr Jordan Senior HS
2265 E. 103rd St.
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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C5; Dup or Spiked Sample: 92916.46; LCS: Clean Sand; QC Prepared: 06/12/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.13**	**1.00**	**7.19 #**	**406**	**1.00**	**7.38 #**	**425**	**4.6**	**80-120**	**<15**

QC Batch No: 0612181C5; Dup or Spiked Sample: 92916.46; LCS: Clean Sand; QC Prepared: 06/12/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.971**	**97.1**	**1.00**	**1.01**	**101**	**3.9**	**80-120**	**<15**	

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0612181C6; Dup or Spiked Sample: 92916.01; LCS: Clean Sand; LCS Prepared: 06/12/2018; LCS Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.971**	**97.1**	**1.00**	**1.02**	**102**	**4.9**	**80-120**	**<15**	

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C2; Dup or Spiked Sample: 92916.01; LCS: Clean Sand; QC Prepared: 06/12/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**8.36**	**1.00**	**8.58 #**	**21.9**	**1.00**	**8.59 #**	**22.9**	**4.5**	**75-125**	**<15**

QC Batch No: 0612181C2; Dup or Spiked Sample: 92916.01; LCS: Clean Sand; QC Prepared: 06/12/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.973**	**97.3**	**1.00**	**0.969**	**96.9**	**<1**	**75-125**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C3; Dup or Spiked Sample: 92916.17; LCS: Clean Sand; LCS Prepared: 06/12/2018; LCS Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.977**	**97.7**	**1.00**	**0.987**	**98.7**	**1.0**	**75-125**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C4; Dup or Spiked Sample: 92916.32; LCS: Clean Sand; LCS Prepared: 06/12/2018; LCS Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.984**	**98.4**	**1.00**	**0.979**	**97.9**	**<1**	**75-125**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C5; Dup or Spiked Sample: 92916.46; LCS: Clean Sand; QC Prepared: 06/12/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**5.15**	**1.00**	**11.5 #**	**630**	**1.00**	**11.6 #**	**643**	**2.0**	**75-125**	**<15**

QC Batch No: 0612181C5; Dup or Spiked Sample: 92916.46; LCS: Clean Sand; QC Prepared: 06/12/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.949**	**94.9**	**1.00**	**0.984**	**98.4**	**3.6**	**75-125**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0612181C6; Dup or Spiked Sample: 92916.61; LCS: Clean Sand; LCS Prepared: 06/12/2018; LCS Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.999**	**99.9**	**1.00**	**0.973**	**97.3**	**2.6**	**75-125**	**<15**	

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2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **48**

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061218DB3; Dup or Spiked Sample: 92915.04; LCS: Clean Sand; QC Prepared: 06/12/2018;MS Analyzed: 06/13/2018; LCS Analyzed: 06/12/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	530	106	500	525	105	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	98.6	98.6	100	94.7	94.7	4.0	75-125	<20

QC Batch No: 061218DB3; Dup or Spiked Sample: 92915.04; LCS: Clean Sand; QC Prepared: 06/12/2018;MS Analyzed: 06/13/2018; LCS Analyzed: 06/12/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
TPH as Diesel (C13-C22)	500	525	105	75-125						
Surrogates										
Chlorobenzene	100	95.3	95.3	75-125						

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QUALITY CONTROL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **49**

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061218OB1; Dup or Spiked Sample: 92932.02AGA; LCS: Clean Sand; QC Prepared: 06/12/2018;MS Analyzed: 06/13/2018; LCS Analyzed: 06/12/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.758	75.8	1.00	0.769	76.9	1.4	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0515	103	0.0500	0.0520	104	<1	75-125	<20

QC Batch No: 061218OB1; Dup or Spiked Sample: 92932.02AGA; LCS: Clean Sand; QC Prepared: 06/12/2018;MS Analyzed: 06/13/2018; LCS Analyzed: 06/12/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.857	85.7	1.00	0.889	88.9	3.7	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0496	99.2	0.0500	0.0496	99.2	<1	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**20**
Date Received	**06/11/2018**
Date Reported	**07/10/2018**

Job Number	Order Date	Client
92916	06/11/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 19 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

№ 87937

AETL JOB No. 92916

Page 1 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior High School
PO #:
2265 E. 103rd St, LA, CA 90002

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	8015M (mg/kg)	STLC/TCLP As	STLC/TCLP Pb	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-10-48"	92916.01	6/11/18	0750	Soil	glass jar	ice	X						*(6) 6/21 Normal
2	SSI-10-60"	92916.02		0753				*					X	
3	SSI-12-48"	92916.03		0820				X			*			
4	SSI-12-60"	92916.04		0822				*					X	
5	DUP1	92916.05						X						
6	DUP2	92916.06						*					X	
7	SSI-13-48"	92916.07		0840				X						
8	SSI-13-60"	92916.08		0843									X	
9	SSI-13-W-18"	92916.09		0853				X						
10	SSI-13-W-36"	92916.10		0855				X			*			
11	SSI-13-W-66"	92916.11		0859				*					X	
12	SSI-14-E-6"	92916.12		0909				X						
13	SSI-14-E-18"	92916.13		0910				X	X					
14	SSI-14-E-36"	92916.14		0912				X						
15	SSI-14-E-48"	92916.15		0914				X						

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. Ramirez
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/11/18 Time: 1800
RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: CHRISTIAN PERALTA	Printed Name:	Printed Name:
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/11/18 Time: 1800

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

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CHAIN OF CUSTODY RECORD

№ 87938

AETL JOB No. 92916

Page 2 of 6

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 295 INLAND EMPIRE BL, SUITE ONTARIO, CA 91764
PHONE: 909 989-4449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT: LA501-327
SITE NAME AND ADDRESS: David Starr Jordan Senior HS
PO #:
2265 E. 103rd St, LA, CA 90002

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-14-E-60"	92916.16	6/11/18	0915	soil	glass jar	ice
2	SSI-14-48"	92916.17		0930			
3	SSI-14-60"	92916.18		0933			
4	SSI-15-6'	92916.19		0938			
5	DUP3	92916.20					
6	SSI-15-18"	92916.21		0942			
7	SSI-15-36"	92916.22		0944			
8	SSI-15-48"	92916.23		0945			
9	SSI-15-60"	92916.24		0947			
10	SSI-17-E-6'	92916.25		1007			
11	DUP4	92916.26					
12	SSI-17-E-24"	92916.27		1012			
13	SSI-17W-6"	92916.28		1027			
14	SSI-17W-24"	92916.29		1030			
15	SSI-18E-6"	92916.30		1115			

ANALYSIS REQUESTED

	6020 Arsenic	6020 Lead	STLC/TCLP As	STLC/TCLP Pb	Hold
1	*				X
2	X				
3	*				X
4	X				
5	X				
6	X	X	*	*	
7	X	*	*		
8	X		*		
9	X				
10	*				X
11	X				
12	X				
13	X				X
14	X				
15	*				X
	X				

TEST INSTRUCTIONS & COMMENTS

*(6) 6/21 Normal
*(1) 6/28

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		
Date:	6/11/18 Time: 1607	Time:	Time: 1800
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	CARLTON RAMILLO		
Date:	6/11/18 Time: 1607	Time:	Date: 6/11/18 Time: 1800

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CHAIN OF CUSTODY RECORD

№ 87941

AETL JOB No. 92916

Page 3 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B, ONTARIO, CA 91764
PHONE: 909 9894449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LASD 1-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS # 2265 E. 103rd St, LA, CA 90002

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-18-E-24"	92916.31	6/11/18	1120	S-I	glass jar	ice
2	SSI-18-W-6"	92916.32		1129			
3	SSI-18-W-24"	92916.33		1137			
4	SSI-19-E-18"	92916.34		1143			
5	DUP5	92916.35					
6	SSI-19-E-36"	92916.36		1145			
7	SSI-19-W-18"	92916.37		1207			
8	SSI-19-W-36"	92916.38		1210			
9	SSI-39-6"	92916.39		1237			
10	SSI-39-18"	92916.40		1239			
11	SSI-39-36"	92916.41		1241			
12	SSI-39-48"	92916.42		1243			
13	SSI-39-60"	92916.43		1245			
14	SSI-38-6"	92916.44		1258			
15	SSI-38-18"	92916.45		1300			

ANALYSIS REQUESTED

SAMPLE ID	6020 Arsenic	6020 Lead	STLC/TCLP As	STLC/TCLP Pb	Hold
SSI-18-E-24"					X
SSI-18-W-6"	X				
SSI-18-W-24"	*				X
SSI-19-E-18"		X			
DUP5		X			
SSI-19-E-36"					X
SSI-19-W-18"		X			
SSI-19-W-36"					X
SSI-39-6"					
SSI-39-18"	X	X			
SSI-39-36"	X	X			
SSI-39-48"	X	X			
SSI-39-60"					X
SSI-38-6"					X
SSI-38-18"	X	X	*		
	X	X	*		

TEST INSTRUCTIONS & COMMENTS

*(3) 6/21 Normal

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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☒ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PADILLA
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/11/18 Time: 1800
RECEIVED BY: 1.	RECEIVED BY: 2	RECEIVED BY LABORATORY: AETL 3.
Signature:	Signature:	Signature:
Printed Name: CHARLOTTE PADILLA	Printed Name:	Printed Name:
Date: 6/11/18 Time: 1607	Date: Time:	Date: 6/14/18 Time: 1800

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CHAIN OF CUSTODY RECORD

№ 87936

AETL JOB No. 92916

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B, ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	8015M (5035) TPH gas	8015M TPH-D	8015M/TPH-extended								HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-38-36"	92916.46	6/1/18	1302	S-1	glass jar	ice	X	X												(6)
2	SSI-38-48"	92916.47		1304																X	
3	SSI-38-60"	92916.48		1306																X	
4	SSI-37-6"	92916.49		1317				X	X												
5	SSI-37-18"	92916.50		1320				X	X												
6	SSI-37-36"	92916.51		1322				X	X												
7	SSI-37-48"	92916.52		1323																X	
8	SSI-37-60"	92916.53		1324																X	
9	SSI-36-6"	92916.54		1339				X	X												
10	SSI-36-18"	92916.55		1341				X	X												
11	SSI-36-36"	92916.56		1343				X	X												
12	SSI-36-48"	92916.57		1345																X	
13	SSI-36-60"	92916.58		1356		4 jar, 4 VOA	ice/soil			X	X	X									
14	SSI-35-6	92916.59		1406		glass jar	ice	X	X												
15	DUP 6	92916.60	↓		↓	↓	↓	X	X												

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: CYNTHIA LAS
Date: 6/1/18 Time: 1607	Date: Time:	Date: 6/1/18 Time: 1800
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CYNTHIA PRADILLA	Printed Name:	Printed Name:
Date: 6/1/18 Time: 1609	Date: Time:	Date: 6/1/18 Time: 1800

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

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CHAIN OF CUSTODY RECORD

103687

AETL JOB No. 92916

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2350 INLAND EMPIRE BL, SUITE B, ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan HS SSI
PROJECT #: LA51-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior High School, 2265 E. 103rd St, LA, CA 90002
PO#:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-35-18"	92916-61	6/1/18	1408	Soil	glass jar	ice
2	SSI-35-36"	92916-62		1410			
3	SSI-35-48"	92916-63		1411			
4	SSI-35-60"	92916-64		1413			
5	DUP-7	92916-65					
6	SSI-34-6"	92916-66		1423			
7	SSI-34-18"	92916-67		1424			
8	SSI-34-36"	92916-68		1426			
9	SSI-34-48"	92916-69		1428			
10	SSI-34-60"	92916-70		1430			
11	SSI-33-6"	92916-71		1437			
12	SSI-33-18"	92916-72		1442			
13	SSI-33-36"	92916-73		1444			
14	SSI-33-48"	92916-74		1446			
15	SSI-33-60"	92916-75		1448			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead			STLC/TCLP As	STLC/TCLP Pb			HOLD
X	X				*			
X	X							
								X
								X
X	X				*			
X	X							
X	X				*			
								X
X	X							
X	X				*			
X	X							
								X

TEST INSTRUCTIONS & COMMENTS

*(3) 6/21 Normal

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1. RELINQUISHED BY SAMPLER	2. RELINQUISHED BY:	3. RELINQUISHED BY:
Signature			
Printed Name	MIKE WATSON		C. MARTINEZ
Date / Time	6/1/18 1607	/	6/1/18 1800
	RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** AETL 3.
Signature			
Printed Name	CAROLINA MARTINEZ		ANA
Date / Time	6/1/18 1607	/	6/1/18 1800

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, June 21, 2018 2:17 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018

Hi Jim,

Please run the following samples for arsenic by EPA 6020:
SSI-10-60"
SSI-12-60"
DUP2
SSI-13-W-60"
SSI-14-E-60"
SSI-15-60"
SSI-17-W-24" and
SSI-18-W-24".

Please also run SSI-15-36" for lead by EPA 6020.

Use a normal turnaround time.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Wednesday, June 20, 2018 5:13 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan High School, Los Angeles, CA".

AETL Job No: 92916

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, June 21, 2018 2:37 PM
To: JIM LIN
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018
Attachments: image001.jpg; image003.jpg

Hi Jim,

Please also run the following samples for STLC and TCLP for As:

SSI-12-48"
SSI-13-W-36"
SSI-15-18"
SSI-15-36"
SSI-15-48"
~~DUP1~~

And run the following samples for STLC and TCLP for Pb:

SSI-15-18"
SSI-33-18"
SSI-34-18"
SSI-35-18"
SSI-38-6"
SSI-38-18"

Thanks,
-Mike

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, June 21, 2018 2:19 PM
To: Mike Watson
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018

Hi Mike,

Got it.

Thank you.

Jim, AETL

From: Mike Watson [mailto:mwatson@placeworks.com]
Sent: Thursday, June 21, 2018 2:17 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, June 21, 2018 3:04 PM
To: JIM LIN
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018
Attachments: image001.jpg; image003.jpg

Jim,

Please strike DUP1 from the list below. We don't need that sample to be run. I apologize for the error.

Thanks,
-Mike

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, June 21, 2018 2:54 PM
To: Mike Watson
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018

Hi Mike,

Got it.

Thank you.

Jim, AETL

From: Mike Watson [mailto:mwatson@placeworks.com]
Sent: Thursday, June 21, 2018 2:37 PM
To: JIM LIN
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018

Hi Jim,

Please also run the following samples for STLC and TCLP for As:

SSI-12-48"
SSI-13-W-36"
SSI-15-18"
SSI-15-36"
SSI-15-48"
DUP1

And run the following samples for STLC and TCLP for Pb:

SSI-15-18"

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, June 27, 2018 4:31 PM
To: JIM LIN
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018
Attachments: image001.jpg; image003.jpg

Please also run SSI-14-60" for arsenic by EPA 6020. 92916.18

Thanks,
-Mike

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, June 21, 2018 2:54 PM
To: Mike Watson
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018

Hi Mike,

Got it.

Thank you.

Jim, AETL

From: Mike Watson [mailto:mwatson@placeworks.com]
Sent: Thursday, June 21, 2018 2:37 PM
To: JIM LIN
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-11-2018

Hi Jim,

Please also run the following samples for STLC and TCLP for As:

SSI-12-48"
SSI-13-W-36"
SSI-15-18"
SSI-15-36"
SSI-15-48"
DUP1

And run the following samples for STLC and TCLP for Pb:

SSI-15-18"
SSI-33-18"
SSI-34-18"

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Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/11/2018
Date Reported 07/10/2018

Job Number	Order Date	Client
92916	06/11/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 75 samples with the following specification on 06/11/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92916.01	SSI-10-48"	06/11/2018	Soil	1
92916.02	SSI-10-60"	06/11/2018	Soil	1
92916.04	SSI-12-60"	06/11/2018	Soil	1
92916.05	DUP1	06/11/2018	Soil	1
92916.06	DUP2	06/11/2018	Soil	1
92916.07	SSI-13-48"	06/11/2018	Soil	1
92916.09	SSI-13-W-18"	06/11/2018	Soil	1
92916.11	SSI-13-W-60"	06/11/2018	Soil	1
92916.12	SSI-14-E-6"	06/11/2018	Soil	1
92916.14	SSI-14-E-36"	06/11/2018	Soil	1
92916.15	SSI-14-E-48"	06/11/2018	Soil	1
92916.16	SSI-14-E-60"	06/11/2018	Soil	1
92916.17	SSI-14-48"	06/11/2018	Soil	1
92916.18	SSI-14-60"	06/11/2018	Soil	1
92916.19	SSI-15-6"	06/11/2018	Soil	1
92916.20	DUP3	06/11/2018	Soil	1
92916.24	SSI-15-60"	06/11/2018	Soil	1
92916.25	SSI-17-E-6"	06/11/2018	Soil	1
92916.26	DUP4	06/11/2018	Soil	1
92916.28	SSI-17W-6"	06/11/2018	Soil	1
92916.29	SSI-17W-24"	06/11/2018	Soil	1
92916.30	SSI-18E-6"	06/11/2018	Soil	1
92916.32	SSI-18-W-6"	06/11/2018	Soil	1
92916.33	SSI-18-W-24"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/18/2018	2	Normal	mg/Kg

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/11/2018
Date Reported 07/10/2018

Job Number	Order Date	Client
92916	06/11/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92916.03	SSI-12-48"	06/11/2018	Soil	1
92916.10	SSI-13-W-36"	06/11/2018	Soil	1
92916.23	SSI-15-48"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	06/18/2018	2	Normal	mg/L
(6010B-STLC) ^ AS	06/18/2018	2	Normal	mg/L
(6020) ^ AS	06/18/2018	2	Normal	mg/Kg

92916.08	SSI-13-60"	06/11/2018	Soil	1
92916.27	SSI-17-E-24"	06/11/2018	Soil	1
92916.31	SSI-18-E-24"	06/11/2018	Soil	1
92916.36	SSI-19-E-30"	06/11/2018	Soil	1
92916.38	SSI-19-W-30"	06/11/2018	Soil	1
92916.42	SSI-39-48"	06/11/2018	Soil	1
92916.43	SSI-39-60"	06/11/2018	Soil	1
92916.47	SSI-38-48"	06/11/2018	Soil	1
92916.48	SSI-38-60"	06/11/2018	Soil	1
92916.52	SSI-37-48"	06/11/2018	Soil	1
92916.53	SSI-37-60"	06/11/2018	Soil	1
92916.57	SSI-36-48"	06/11/2018	Soil	1
92916.63	SSI-35-48"	06/11/2018	Soil	1
92916.64	SSI-35-60"	06/11/2018	Soil	1
92916.65	DUP7	06/11/2018	Soil	1
92916.69	SSI-34-48"	06/11/2018	Soil	1
92916.70	SSI-34-60"	06/11/2018	Soil	1
92916.74	SSI-33-48"	06/11/2018	Soil	1
92916.75	SSI-33-60"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/18/2018	2	Normal	--

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/11/2018
Date Reported 07/10/2018

Job Number	Order Date	Client
92916	06/11/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92916.13	SSI-14-E-18"	06/11/2018	Soil	1
92916.39	SSI-39-6"	06/11/2018	Soil	1
92916.40	SSI-39-18"	06/11/2018	Soil	1
92916.41	SSI-39-36"	06/11/2018	Soil	1
92916.46	SSI-38-36"	06/11/2018	Soil	1
92916.49	SSI-37-6"	06/11/2018	Soil	1
92916.50	SSI-37-18"	06/11/2018	Soil	1
92916.51	SSI-37-36"	06/11/2018	Soil	1
92916.54	SSI-36-6"	06/11/2018	Soil	1
92916.55	SSI-36-18"	06/11/2018	Soil	1
92916.56	SSI-36-36"	06/11/2018	Soil	1
92916.59	SSI-35-6"	06/11/2018	Soil	1
92916.60	DUP6	06/11/2018	Soil	1
92916.62	SSI-35-36"	06/11/2018	Soil	1
92916.66	SSI-34-6"	06/11/2018	Soil	1
92916.68	SSI-34-36"	06/11/2018	Soil	1
92916.71	SSI-33-6"	06/11/2018	Soil	1
92916.73	SSI-33-36"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/18/2018	2	Normal	mg/Kg
(6020) ^ PB	06/18/2018	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92916.21	SSI-15-18"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	06/18/2018	2	Normal	mg/L
(6010/7000TCLP) ^ PB	06/18/2018	2	Normal	mg/L
(6010B-STLC) ^ AS	06/18/2018	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	06/18/2018	2	Normal	mg/L
(6020) ^ AS	06/18/2018	2	Normal	mg/Kg
(6020) ^ PB	06/18/2018	2	Normal	mg/Kg

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/11/2018
Date Reported 07/10/2018

Job Number	Order Date	Client
92916	06/11/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92916.22	SSI-15-36"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	06/18/2018	2	Normal	mg/L
(6010B-STLC) ^ AS	06/18/2018	2	Normal	mg/L
(6020) ^ AS	06/18/2018	2	Normal	mg/Kg
(6020) ^ PB	06/18/2018	2	Normal	mg/Kg

92916.34	SSI-19-E-18"	06/11/2018	Soil	1
92916.35	DUP5	06/11/2018	Soil	1
92916.37	SSI-19-W-18"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	06/18/2018	2	Normal	mg/Kg

92916.44	SSI-38-6"	06/11/2018	Soil	1
92916.45	SSI-38-18"	06/11/2018	Soil	1
92916.61	SSI-35-18"	06/11/2018	Soil	1
92916.67	SSI-34-18"	06/11/2018	Soil	1
92916.72	SSI-33-18"	06/11/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	06/18/2018	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	06/18/2018	2	Normal	mg/L
(6020) ^ AS	06/18/2018	2	Normal	mg/Kg
(6020) ^ PB	06/18/2018	2	Normal	mg/Kg

92916.58	SSI-36-60"	06/11/2018	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015D) ^ C13-C40	06/18/2018	2	Normal	mg/Kg
(M8015G)	06/18/2018	2	Normal	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **2**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C1

Our Lab I.D.			Method Blank	92916.02	92916.04	92916.06	92916.11
Client Sample I.D.				SSI-10-60"	SSI-12-60"	DUP2	SSI-13-W-60"
Date Sampled				06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/26/2018	06/26/2018	06/26/2018	06/26/2018	06/26/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	6.22	36.7	58.3	94.2

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Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson
Page: **3**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C1

Our Lab I.D.			92916.16	92916.24	92916.29	92916.33	
Client Sample I.D.			SSI-14-E-60"	SSI-15-60"	SSI-17W-24"	SSI-18-W-24"	
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	
Date Prepared			06/25/2018	06/25/2018	06/25/2018	06/25/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			06/26/2018	06/26/2018	06/26/2018	06/26/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	50.2	50.7	41.1	4.70	

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **4**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0703181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/03/2018				
Preparation Method			3050B				
Date Analyzed			07/05/2018				
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: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **5**

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0703181C3

Our Lab I.D.			92916.18				
Client Sample I.D.			SSI-14-60"				
Date Sampled			06/11/2018				
Date Prepared			07/03/2018				
Preparation Method			3050B				
Date Analyzed			07/05/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	50.0				

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ANALYTICAL RESULTS

Ordered By

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0625181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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ANALYTICAL RESULTS

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Attn: Mike Watson
Page: **7**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0625181C3

Our Lab I.D.			92916.22				
Client Sample I.D.			SSI-15-36"				
Date Sampled			06/11/2018				
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	10.3				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0623182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/23/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/25/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0623182C3

Our Lab I.D.			92916.03	92916.10	92916.21	92916.22	92916.23
Client Sample I.D.			SSI-12-48"	SSI-13-W-36"	SSI-15-18"	SSI-15-36"	SSI-15-48"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/23/2018	06/23/2018	06/23/2018	06/23/2018	06/23/2018
Preparation Method			TITLE 22	TITLE 22	TITLE 22	TITLE 22	TITLE 22
Date Analyzed			06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.50	1.00	2.72	4.34	8.55	6.01	1.75

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0623182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/23/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/25/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0623182C3

Our Lab I.D.			92916.21	92916.44	92916.45	92916.61	92916.67
Client Sample I.D.			SSI-15-18"	SSI-38-6"	SSI-38-18"	SSI-35-18"	SSI-34-18"
Date Sampled			06/11/2018	06/11/2018	06/11/2018	06/11/2018	06/11/2018
Date Prepared			06/23/2018	06/23/2018	06/23/2018	06/23/2018	06/23/2018
Preparation Method			TITLE 22	TITLE 22	TITLE 22	TITLE 22	TITLE 22
Date Analyzed			06/25/2018	06/25/2018	06/25/2018	06/25/2018	06/25/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead (STLC)	0.50	1.00	4.09	6.89	2.88	0.840	17.3

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0623182C3

Our Lab I.D.			92916.72				
Client Sample I.D.			SSI-33-18"				
Date Sampled			06/11/2018				
Date Prepared			06/23/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/25/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	1.89				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C4; Dup or Spiked Sample: 92786.09; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0625182C4; Dup or Spiked Sample: 92786.09; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; 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 (TCLP)	**10.0**	**10.4**	**104**	**10.0**	**10.3**	**103**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C4; Dup or Spiked Sample: 92786.09; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0625182C4; Dup or Spiked Sample: 92786.09; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; 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	
Lead (TCLP)	**10.0**	**10.0**	**100**	**10.0**	**9.97**	**99.7**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C5; Dup or Spiked Sample: 92916.45; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0625182C5; Dup or Spiked Sample: 92916.45; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; 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	
Lead (TCLP)	**10.0**	**9.96**	**99.6**	**10.0**	**9.87**	**98.7**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0623182C3; Dup or Spiked Sample: 92916.03; LCS: Clean Sand; LCS Prepared: 06/23/2018; LCS Analyzed: 06/25/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**2.72**	**2.64**	**3.0**	**<20**						

QC Batch No: 0623182C3; Dup or Spiked Sample: 92916.03; LCS: Clean Sand; LCS Prepared: 06/23/2018; LCS Analyzed: 06/25/2018; 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**	**10.1**	**101**	**10.0**	**9.54**	**95.4**	**5.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0623182C3; LCS: Clean Sand; LCS Prepared: 06/23/2018; LCS Analyzed: 06/25/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0623182C3; LCS: Clean Sand; LCS Prepared: 06/23/2018; LCS Analyzed: 06/25/2018; 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	
Lead (STLC)	**10.0**	**8.62**	**86.2**	**10.0**	**8.54**	**85.4**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0625181C3; Dup or Spiked Sample: 92916.02; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**8.30**	**1.00**	**10.5**	**220**	**1.00**	**10.5**	**220**	**<1**	**75-125**	**<15**

QC Batch No: 0625181C3; Dup or Spiked Sample: 92916.02; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.920**	**91.8**	**1.00**	**0.930**	**92.6**	**<1**	**75-125**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C1; Dup or Spiked Sample: 92916.02; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**6.22**	**1.00**	**8.62 #**	**240**	**1.00**	**8.53 #**	**231**	**3.8**	**80-120**	**<15**

QC Batch No: 0625181C1; Dup or Spiked Sample: 92916.02; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.996**	**99.6**	**1.00**	**0.987**	**98.7**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92916	06/11/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0703181C3; Dup or Spiked Sample: 92916.18; LCS: Clean Sand; QC Prepared: 07/03/2018; QC Analyzed: 07/05/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**50.0**	**1.00**	**56.7 M**	**670**	**1.00**	**57.2 M**	**720**	**7.19**	**80-120**	**<15**

QC Batch No: 0703181C3; Dup or Spiked Sample: 92916.18; LCS: Clean Sand; QC Prepared: 07/03/2018; QC Analyzed: 07/05/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.00**	**100**	**1.00**	**0.958**	**95.8**	**4.29**	**80-120**	**<15**	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Number of Pages	**23**
Date Received	**06/12/2018**
Date Reported	**06/20/2018**

Job Number	Order Date	Client
92936	06/12/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 24 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

103686

AETL JOB No. 92936 (rev. 1)

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FAX:
PROJECT NAME: David Starr Jordan Senior High School
PROJECT #: SSI LASD1-32.7
SITE NAME AND ADDRESS: 2265 E 103rd St, Los Angeles CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	A-5'	92936.01	6/12/18	0737	soil	4 acetate tube 4 VOAs	ice/SGS
2	A-10'	92936.02		0740			
3	A-15'	92936.03		0743			
4	A-20'	92936.04		0746			
5	A-25'	92936.05		0749			
6	B-10'	92936.06		0827			
7	B-15'	92936.07		0832			
8	B-20'	92936.08		0835			
9	B-25'	92936.09		0838			
10	DUP 8	92936.10					
11	C-10'	92936.11		0908			
12	C-15'	92936.12		0911			
13	C-20'	92936.13		0914			
14	C-25'	92936.14		0917			
15	SSI-32-6"	92936.15		0954		glass jar	ice

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead	8015M (SGS) TPH GAS	8015M TPHD	8015M TPH extended	HOLD	TEST INSTRUCTIONS & COMMENTS
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		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	71	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PADILLA
Date: 6/12/18 Time: 1600	Date: Time:	Date: 6/12/18 Time: 1805
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name: C. PADILLA	Printed Name:	Printed Name: Antin
Date: 6/12/18 Time: 1600	Date: Time:	Date: 06/12/18 Time: 1805

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

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CHAIN OF CUSTODY RECORD

103688

AETL JOB No. 92936

Page 2 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD 1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-32-18"	92936.16	6/12/18	0956	Soil	glass jar	ice	X	X		
2	SSI-32-36"	92936.17		0958				X	X		
3	SSI-32-48"	92936.18		0959						X	
4	SSI-32-60"	92936.19		1000						X	
5	SSI-31-W-6"	92936.20		1011				X			
6	SSI-31-W-24"	92936.21		1014						X	
7	SSI-40-6"	92936.22		1145				X	X		
8	SSI-40-18"	92936.23		1147				X	X		
9	SSI-40-36"	92936.24		1149				X	X		
10	SSI-40-48"	92936.25		1151						X	
11	SSI-40-60"	92936.26		1152						X	
12	SSI41-6"	92936.27		1203				X	X		
13	DUP9	92936.28						X	X		
14	SSI-41-18"	92936.29		1205				X	X		
15	SSI-41-36"	92936.30		1207				X	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature			
Printed Name	MIKE WATSON		C. ARCILLAS
Date / Time	6/12/18 1600	/	6/12/18 1805

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature			AETL
Printed Name	CHRISTIAN ARCILLAS		AMY
Date / Time	6/12/18 1600	/	6/12/18 1805

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

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COOLER RECEIPT FORM

Client Name: PlaceWorks
Project Name:
AETL Job Number: 92936
Date Received: 06/12/18 Received by: Antin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify): c
Inside temperature of shipping container No 1: 3.3°C, No 2: 3.4°C, No 3: ____
Type of sample containers: ☒ VOA, ☒ Glass bottles, ☐ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): 14x acetate tube 14x 5035
How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, ✓ MeOH
_ Other (Specify): $NaHSO_4 H_2O$

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/12/2018
Date Reported 06/20/2018

Job Number	Order Date	Client
92936	06/12/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 06/12/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92936.01	A-5'	06/12/2018	Soil	5
92936.18	SSI-32-48"	06/12/2018	Soil	1
92936.19	SSI-32-60"	06/12/2018	Soil	1
92936.21	SSI-31-W-24"	06/12/2018	Soil	1
92936.25	SSI-40-48"	06/12/2018	Soil	1
92936.26	SSI-40-60"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/19/2018	2	Normal	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92936.02	A-10'	06/12/2018	Soil	5
92936.03	A-15'	06/12/2018	Soil	5
92936.04	A-20'	06/12/2018	Soil	5
92936.05	A-25'	06/12/2018	Soil	5
92936.06	B-10'	06/12/2018	Soil	5
92936.07	B-15'	06/12/2018	Soil	5
92936.08	B-20'	06/12/2018	Soil	5
92936.09	B-25'	06/12/2018	Soil	5
92936.10	DUP8	06/12/2018	Soil	5
92936.11	C-10'	06/12/2018	Soil	5
92936.12	C-15'	06/12/2018	Soil	5
92936.13	C-20'	06/12/2018	Soil	5
92936.14	C-25'	06/12/2018	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015D) ^ C13-C40	06/19/2018	2	Normal	mg/Kg
(M8015G)	06/19/2018	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92936.15	SSI-32-6"	06/12/2018	Soil	1

Continued

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91764**	**Project ID: LASD1-32.7** **Date Received 06/12/2018** **Date Reported 06/20/2018**
Telephone: (909)989-4449 **Attention: Mike Watson**	

Job Number	Order Date	Client
92936	06/12/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

92936.16	SSI-32-18"	06/12/2018	Soil	1
92936.17	SSI-32-36"	06/12/2018	Soil	1
92936.22	SSI-40-6"	06/12/2018	Soil	1
92936.23	SSI-40-18"	06/12/2018	Soil	1
92936.24	SSI-40-36"	06/12/2018	Soil	1
92936.27	SSI-41-6"	06/12/2018	Soil	1
92936.28	DUP9	06/12/2018	Soil	1
92936.29	SSI-41-18"	06/12/2018	Soil	1
92936.30	SSI-41-36"	06/12/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	06/19/2018	2	Normal	mg/Kg
(6020) ^ PB	06/19/2018	2	Normal	mg/Kg

92936.20	SSI-31-W-6"	06/12/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	06/19/2018	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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Attn: Mike Watson
Page: **2**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061318NB2

Our Lab I.D.			Method Blank	92936.02	92936.03	92936.04	92936.05
Client Sample I.D.				A-10'	A-15'	A-20'	A-25'
Date Sampled				06/12/2018	06/12/2018	06/12/2018	06/12/2018
Date Prepared			06/13/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	92936.02	92936.03	92936.04	92936.05
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		102	112	109	110	107

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ANALYTICAL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061318NB2

Our Lab I.D.			92936.06	92936.07	92936.08	92936.09	92936.10
Client Sample I.D.			B-10'	B-15'	B-20'	B-25'	DUP8
Date Sampled			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			92936.06	92936.07	92936.08	92936.09	92936.10
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		104	111	105	109	103

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Page: **4**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061318NB2

Our Lab I.D.			92936.11	92936.12	92936.13	92936.14	
Client Sample I.D.			C-10'	C-15'	C-20'	C-25'	
Date Sampled			06/12/2018	06/12/2018	06/12/2018	06/12/2018	
Date Prepared			06/12/2018	06/12/2018	06/12/2018	06/12/2018	
Preparation Method			5035A	5035A	5035A	5035A	
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	
Our Lab I.D.			92936.11	92936.12	92936.13	92936.14	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		100	106	107	111	

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **5**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061418DB3

Our Lab I.D.			Method Blank	92936.02	92936.03	92936.04	92936.05
Client Sample I.D.				A-10'	A-15'	A-20'	A-25'
Date Sampled				06/12/2018	06/12/2018	06/12/2018	06/12/2018
Date Prepared			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	2,110	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	2,110	ND
Our Lab I.D.			Method Blank	92936.02	92936.03	92936.04	92936.05
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		107	104	96.9	99.1	97.7

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ANALYTICAL RESULTS

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Page: **6**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061418DB3

Our Lab I.D.			92936.06	92936.07	92936.08	92936.09	92936.10
Client Sample I.D.			B-10'	B-15'	B-20'	B-25'	DUP8
Date Sampled			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Date Prepared			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			06/14/2018	06/14/2018	06/14/2018	06/15/2018	06/15/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.			92936.06	92936.07	92936.08	92936.09	92936.10
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		97.9	97.1	97.0	99.0	98.3

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ANALYTICAL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **7**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061418DB3

Our Lab I.D.			92936.11	92936.12	92936.13	92936.14	
Client Sample I.D.			C-10'	C-15'	C-20'	C-25'	
Date Sampled			06/12/2018	06/12/2018	06/12/2018	06/12/2018	
Date Prepared			06/14/2018	06/14/2018	06/14/2018	06/14/2018	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			06/15/2018	06/15/2018	06/15/2018	06/15/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	
Our Lab I.D.			92936.11	92936.12	92936.13	92936.14	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Chlorobenzene	75-125		97.9	98.5	99.5	99.7	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/14/2018				
Preparation Method			3050B				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C1

Our Lab I.D.			92936.15	92936.16			
Client Sample I.D.			SSI-32-6"	SSI-32-18"			
Date Sampled			06/12/2018	06/12/2018			
Date Prepared			06/14/2018	06/14/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/18/2018	06/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	21.1	18.8			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C1

Our Lab I.D.			92936.17	92936.20	92936.22	92936.23	92936.24
Client Sample I.D.			SSI-32-36"	SSI-31-W-6"	SSI-40-6"	SSI-40-18"	SSI-40-36"
Date Sampled			06/12/2018	06/12/2018	06/12/2018	06/12/2018	06/12/2018
Date Prepared			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/18/2018	06/18/2018	06/18/2018	06/18/2018	06/18/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	2.88	3.64	7.07	3.74	1.80

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C1

Our Lab I.D.			92936.27	92936.28	92936.29	92936.30	
Client Sample I.D.			SSI-41-6"	DUP9	SSI-41-18"	SSI-41-36"	
Date Sampled			06/12/2018	06/12/2018	06/12/2018	06/12/2018	
Date Prepared			06/14/2018	06/14/2018	06/14/2018	06/14/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			06/18/2018	06/18/2018	06/18/2018	06/18/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	4.05	4.22	3.06	1.37	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/14/2018				
Preparation Method			3050B				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1

Our Lab I.D.			92936.15				
Client Sample I.D.			SSI-32-6"				
Date Sampled			06/12/2018				
Date Prepared			06/14/2018				
Preparation Method			3050B				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Lead	25	50	327				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1

Our Lab I.D.			92936.16				
Client Sample I.D.			SSI-32-18"				
Date Sampled			06/12/2018				
Date Prepared			06/14/2018				
Preparation Method			3050B				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	68.4				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1

Our Lab I.D.			92936.17				
Client Sample I.D.			SSI-32-36"				
Date Sampled			06/12/2018				
Date Prepared			06/14/2018				
Preparation Method			3050B				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	4.23				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1

Our Lab I.D.			92936.22				
Client Sample I.D.			SSI-40-6"				
Date Sampled			06/12/2018				
Date Prepared			06/14/2018				
Preparation Method			3050B				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	83.3				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1

Our Lab I.D.			92936.23	92936.24			
Client Sample I.D.			SSI-40-18"	SSI-40-36"			
Date Sampled			06/12/2018	06/12/2018			
Date Prepared			06/14/2018	06/14/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/18/2018	06/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	10.4	3.97			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1

Our Lab I.D.			92936.27	92936.28			
Client Sample I.D.			SSI-41-6"	DUP9			
Date Sampled			06/12/2018	06/12/2018			
Date Prepared			06/14/2018	06/14/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/18/2018	06/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	2.50	5	28.5	27.3			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1

Our Lab I.D.			92936.29	92936.30			
Client Sample I.D.			SSI-41-18"	SSI-41-36"			
Date Sampled			06/12/2018	06/12/2018			
Date Prepared			06/14/2018	06/14/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/18/2018	06/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	6.94	2.37			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C1; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; QC Prepared: 06/14/2018; QC Analyzed: 06/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**21.1**	**1.00**	**21.1 #**	**0.1**	**1.00**	**21.1 #**	**0.1**	**<1**	**80-120**	**<15**

QC Batch No: 0614181C1; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; QC Prepared: 06/14/2018; QC Analyzed: 06/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.994**	**99.4**	**1.00**	**1.01**	**101**	**1.6**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C1; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/14/2018; LCS Analyzed: 06/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.955**	**95.5**	**1.00**	**0.960**	**96.0**	**<1**	**75-125**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061418DB3; Dup or Spiked Sample: 92936.03; LCS: Clean Sand; QC Prepared: 06/14/2018;MS Analyzed: 06/15/2018; LCS Analyzed: 06/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	535	107	500	515	103	3.8	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	95.9	95.9	100	93.9	93.9	2.1	75-125	<20

QC Batch No: 061418DB3; Dup or Spiked Sample: 92936.03; LCS: Clean Sand; QC Prepared: 06/14/2018;MS Analyzed: 06/15/2018; LCS Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	525	105	500	505	101	3.9	75-125	<20	
Surrogates										
Chlorobenzene	100	96.2	96.2	100	95.9	95.9	<1	75-125	<20	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061318NB2; Dup or Spiked Sample: 92936.03AGA; LCS: Clean Sand; QC Prepared: 06/13/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.817	81.7	1.00	0.791	79.1	3.2	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0535	107	0.0500	0.0525	105	1.9	75-125	<20

QC Batch No: 061318NB2; Dup or Spiked Sample: 92936.03AGA; LCS: Clean Sand; QC Prepared: 06/13/2018; QC Analyzed: 06/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.957	95.7	1.00	0.943	94.3	1.5	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0525	105	0.0500	0.0505	101	3.9	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**7**
Date Received	**06/12/2018**
Date Reported	**06/29/2018**

Job Number	Order Date	Client
92936	06/12/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

103686

AETL JOB No. 92936 rev2

Page 1 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2355 So INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior High School
PROJECT #: SSI LASD1-32.7
SITE NAME AND ADDRESS: 2265 E 103rd St Los Angeles CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	8015M (SGS) TPH gas	8015M TPHD	8015M TPH extractable		STLC Lead	TCLP Lead		HOLD
1	A-5'	92936.01	6/12/18	0737	soil	4 acetate tubes 4 VOAs	ice/SGS										X
2	A-10'	92936.02		0740						X	X	X					
3	A-15'	92936.03		0743						X	X	X					
4	A-20'	92936.04		0746						X	X	X					
5	A-25'	92936.05		0749						X	X	X					
6	B-10'	92936.06		0827						X	X	X					
7	B-15'	92936.07		0832						X	X	X					
8	B-20'	92936.08		0835						X	X	X					
9	B-25'	92936.09		0838						X	X	X					
10	PUP 8	92936.10								X	X	X					
11	C-10'	92936.11		0908						X	X	X					
12	C-15'	92936.12		0911						X	X	X					
13	C-20'	92936.13		0914						X	X	X					
14	C-25'	92936.14		0917						X	X	X					
15	SSI-32-6"	92936.15		0954		glass jar	ice	X	X					*	*		

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS

*(1) Added 6/22

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	71	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2	3.
RELINQUISHED BY: SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PASCILLAS
	Date: 6/12/18 Time: 1600	Date: Time:	Date: 6/12/18 Time: 1805
RECEIVED BY:	Signature:	Signature:	Signature:
	Printed Name: CHARLIE PASCILLAS	Printed Name:	Printed Name: Austin
	Date: 6/12/18 Time: 1600	Date: Time:	Date: 06/12/18 Time: 1805
	1.	2	RECEIVED BY LABORATORY: AETL 3.

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

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CHAIN OF CUSTODY RECORD

103688

AETL JOB No. 92936

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2350 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	STLC Lead	TCLP Lead	Hold
1	SSI-32-18"	92936.16	6/12/18	0956	Soil	glass jar	ice	X	X	*	*	
2	SSI-32-36"	92936.17	↓	0958	↓	↓	↓	X	X			
3	SSI-32-48"	92936.18	↓	0959	↓	↓	↓					X
4	SSI-32-60"	92936.19	↓	1000	↓	↓	↓					X
5	SSI-31-W-6"	92936.20	↓	1011	↓	↓	↓	X				
6	SSI-31-W-24"	92936.21	↓	1014	↓	↓	↓					X
7	SSI-40-6"	92936.22	↓	1145	↓	↓	↓	X	X	*	*	
8	SSI-40-18"	92936.23	↓	1147	↓	↓	↓	X	X			
9	SSI-40-36"	92936.24	↓	1149	↓	↓	↓	X	X			
10	SSI-40-48"	92936.25	↓	1151	↓	↓	↓					X
11	SSI-40-60"	92936.26	↓	1152	↓	↓	↓					X
12	SSI-41-6"	92936.27	↓	1203	↓	↓	↓	X	X			
13	Dup9	92936.28	↓		↓	↓	↓	X	X			
14	SSI-41-18"	92936.29	↓	1205	↓	↓	↓	X	X			
15	SSI-41-36"	92936.30	↓	1207	↓	↓	↓	X	X			

TEST INSTRUCTIONS & COMMENTS: *(2) Added 6/22

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME: [X] NORMAL [ ] RUSH [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [ ] 3 DAYS

DATA DELIVERABLE REQUIRED: [ ] HARD COPY [X] PDF [ ] GEOTRACKER (GLOBAL ID) ______ [ ] OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY	(SAMPLER) Signature: [signature]; Printed Name: MIKE WATSON; Date: 6/12/18; Time: 1600	Signature: ; Printed Name: ; Date: ; Time:	Signature: [signature]; Printed Name: C. Arcollino; Date: 6/12/18; Time: 1805
RECEIVED BY	Signature: [signature]; Printed Name: Charlene Arcollino; Date: 6/12/18; Time: 1600	Signature: ; Printed Name: ; Date: ; Time:	(LABORATORY: AETL) Signature: [signature]; Printed Name: Ant—; Date: 06/12/18; Time: 1805

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, June 22, 2018 2:27 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-12-2018 (1 of 2)
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-32-6", SSI-32-18" and SSI-40-6" for lead STLC and TCLP.

Use a normal TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, June 21, 2018 5:26 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-12-2018 (1 of 2)

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan High School, Los Angeles, CA" .

AETL Job No: 92936

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/12/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92936	06/12/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 06/12/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92936.01	A-5'	06/12/2018	Soil	5
92936.18	SSI-32-48"	06/12/2018	Soil	1
92936.19	SSI-32-60"	06/12/2018	Soil	1
92936.21	SSI-31-W-24"	06/12/2018	Soil	1
92936.25	SSI-40-48"	06/12/2018	Soil	1
92936.26	SSI-40-60"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/19/2018	2	Normal	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92936.02	A-10'	06/12/2018	Soil	5
92936.03	A-15'	06/12/2018	Soil	5
92936.04	A-20'	06/12/2018	Soil	5
92936.05	A-25'	06/12/2018	Soil	5
92936.06	B-10'	06/12/2018	Soil	5
92936.07	B-15'	06/12/2018	Soil	5
92936.08	B-20'	06/12/2018	Soil	5
92936.09	B-25'	06/12/2018	Soil	5
92936.10	DUP8	06/12/2018	Soil	5
92936.11	C-10'	06/12/2018	Soil	5
92936.12	C-15'	06/12/2018	Soil	5
92936.13	C-20'	06/12/2018	Soil	5
92936.14	C-25'	06/12/2018	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015D) ^ C13-C40	06/19/2018	2	Normal	mg/Kg
(M8015G)	06/19/2018	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92936.15	SSI-32-6"	06/12/2018	Soil	1

Continued

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Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/12/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92936	06/12/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

92936.16	SSI-32-18"	06/12/2018	Soil	1
92936.22	SSI-40-6"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	06/19/2018	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	06/19/2018	2	Normal	mg/L
(6020) ^ AS	06/19/2018	2	Normal	mg/Kg
(6020) ^ PB	06/19/2018	2	Normal	mg/Kg

92936.17	SSI-32-36"	06/12/2018	Soil	1
92936.23	SSI-40-18"	06/12/2018	Soil	1
92936.24	SSI-40-36"	06/12/2018	Soil	1
92936.27	SSI-41-6"	06/12/2018	Soil	1
92936.28	DUP9	06/12/2018	Soil	1
92936.29	SSI-41-18"	06/12/2018	Soil	1
92936.30	SSI-41-36"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/19/2018	2	Normal	mg/Kg
(6020) ^ PB	06/19/2018	2	Normal	mg/Kg

92936.20	SSI-31-W-6"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/19/2018	2	Normal	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **2**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/26/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/28/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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ANALYTICAL RESULTS

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Attn: Mike Watson
Page: **3**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3

Our Lab I.D.			92936.15	92936.16	92936.22		
Client Sample I.D.			SSI-32-6"	SSI-32-18"	SSI-40-6"		
Date Sampled			06/12/2018	06/12/2018	06/12/2018		
Date Prepared			06/26/2018	06/26/2018	06/26/2018		
Preparation Method			TITLE 22	TITLE 22	TITLE 22		
Date Analyzed			06/28/2018	06/28/2018	06/28/2018		
Matrix			Soil	Soil	Soil		
Units			mg/L	mg/L	mg/L		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead (STLC)	0.50	1.00	19.2	4.29	2.39		

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ANALYTICAL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/25/2018				
Preparation Method			1311				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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ANALYTICAL RESULTS

Ordered By

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **5**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6

Our Lab I.D.			92936.15	92936.16	92936.22		
Client Sample I.D.			SSI-32-6"	SSI-32-18"	SSI-40-6"		
Date Sampled			06/12/2018	06/12/2018	06/12/2018		
Date Prepared			06/25/2018	06/25/2018	06/25/2018		
Preparation Method			1311	1311	1311		
Date Analyzed			06/26/2018	06/26/2018	06/26/2018		
Matrix			Soil	Soil	Soil		
Units			mg/L	mg/L	mg/L		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead (TCLP)	0.50	1.00	0.590J	ND	ND		

Comment(s):
92936.15: Analyzed under dilution due to matrix interference 92936.16: Analyzed under dilution due to matrix interference 92936.22: Analyzed under dilution due to matrix interference

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QUALITY CONTROL RESULTS

Ordered By

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Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0625182C6; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; 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	
Lead (TCLP)	**10.0**	**9.22**	**92.2**	**10.0**	**9.15**	**91.5**	**<1**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **7**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92936	06/12/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**19.2**	**19.5**	**1.6**	**<20**						

QC Batch No: 0626182C3; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; 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	
Lead (STLC)	**10.0**	**8.63**	**86.3**	**10.0**	**8.69**	**86.9**	**<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

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages 12
Date Received 06/12/2018
Date Reported 06/20/2018

Job Number	Order Date	Client
92937	06/12/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

108729

AETL JOB No. 92937

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD SUITE B ONTARIO CA 91764
PHONE: 909 989 4949
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-41-48"	92937.01	6/12/18	1209	Soil	glass jar	ice
2	SSI-41-60"	92937.02		1211			
3	DUP 10	92937.03					
4	SSI-31-N-6"	92937.04		1218			
5	SSI-31-N-24"	92937.05		1220			
6	SSI-31-S-6"	92937.06		1228			
7	SSI-31-S-24"	92937.07		1230			
8	SSI-31-E-6"	92937.08		1234			
9	SSI-31-E-24"	92937.09		1236			
10	SSI-30-W-6"	92937.10		1243			
11	SSI-30-W-24"	92937.11		1245			
12	SSI-30-S-6"	92937.12		1251			
13	SSI-30-S-24"	92937.13		1253			
14	SSI-30-N-6"	92937.14		1259			
15	SSI-30-N-24"	92937.15		1301			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead	HOLD
		X
		X
		X
X		
		X
X		
		X
X		
		X
X		
		X
X		
		X
X		

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PRIMILLO
Date: 6/12/18 Time: 1600	Date: Time:	Date: 6/12/18 Time: 1805
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CARLOS PRIMILLO	Printed Name:	Printed Name:
Date: 6/12/18 Time: 1600	Date: Time:	Date: 06/12/18 Time: 1805

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

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CHAIN OF CUSTODY RECORD

108730

AETL JOB No. 92937

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B, ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St, CA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME (MW)	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-29-W-6"	92937.16	6/12/18	1311	Soil	glass jar	ice		X		time 1311
2	SSI-29-W-24"	92937.17		1313						X	
3	SSI-29-N-6"	92937.18		1322					X		
4	SSI-29-N-24"	92937.19		1324						X	
5	SSI-28-W/29-E-6"	92937.20		1333					X		
6	SSI-28-W/29-E-24"	92937.21		1335						X	
7	SSI-28-N-6"	92937.22		1343					X		
8	SSI-28-N-24"	92937.23		1345						X	
9	SSI-28-E-6"	92937.24		1400					X		
10	SSI-28-E-24"	92937.25		1402						X	
11	SSI-8-W-18"	92937.26		1413				X			
12	SSI-8-W-30"	92937.27		1415				X			
13	SSI-8-W-42"	92937.28		1417						X	
14	SSI-3-W-18"	92937.29		1436				X			
15	SSI-3-W-30"	92937.30	↓	1432	↓	↓	↓	X			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		C. PARCELLO
Date:	6/12/18		6/12/18
Time:	1600		1805

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	C. PARCELLO		ANT
Date:	6/12/18		06/12/18
Time:	1600		1805

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

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CHAIN OF CUSTODY RECORD

108731

AETL JOB No. 92937

COMPANY PLACEWORKS
PROJECT MANAGER MIKE WATTSON
COMPANY ADDRESS 2850 INLAND EMPIRE BL, STE B, ONTARIO, CA 91764
PHONE 909 989 4449
FAX
PROJECT NAME David Starr Jordan Senior HS SSI
PROJECT # LASDI-32-7
SITE NAME AND ADDRESS David Starr Jordan SHS, 2265 E. 103rd St, LA, CA 90002
PO #

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-3-W42"92937-31		6/12/18	1434	Soil	glass jar	ice
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

	X HOLD

TEST INSTRUCTIONS & COMMENTS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	1	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATTSON		C. PHILLIPS
Date:	6/12/18	Date:	6/12/18
Time:	1600	Time:	1805
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	CHRISTIAN PHILLIPS		
Date:	6/12/18	Date:	06/12/18
Time:	1600	Time:	1805

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

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COOLER RECEIPT FORM

Client Name: Place Works
Project Name:
AETL Job Number: 92937
Date Received: 06/12/18 Received by: Ant
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.3°C, No 2: 3.4°C, No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/12/2018
Date Reported 06/20/2018

Job Number	Order Date	Client
92937	06/12/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 31 samples with the following specification on 06/12/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92937.01	SSI-41-48"	06/12/2018	Soil	1
92937.02	SSI-41-60"	06/12/2018	Soil	1
92937.03	DUP10	06/12/2018	Soil	1
92937.05	SSI-31-N-24"	06/12/2018	Soil	1
92937.07	SSI-31-S-24"	06/12/2018	Soil	1
92937.09	SSI-31-E-24"	06/12/2018	Soil	1
92937.11	SSI-30-W-24"	06/12/2018	Soil	1
92937.13	SSI-30-S-24"	06/12/2018	Soil	1
92937.15	SSI-30-N-24"	06/12/2018	Soil	1
92937.17	SSI-29-W-24"	06/12/2018	Soil	1
92937.19	SSI-29-N-24"	06/12/2018	Soil	1
92937.21	SSI-28-W/29-E-24"	06/12/2018	Soil	1
92937.23	SSI-28-N-24"	06/12/2018	Soil	1
92937.25	SSI-28-E-24"	06/12/2018	Soil	1
92937.28	SSI-8-W-42"	06/12/2018	Soil	1
92937.31	SSI-3-W-42"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/19/2018	2	Normal	--

92937.04	SSI-31-N-6"	06/12/2018	Soil	1
92937.06	SSI-31-S-6"	06/12/2018	Soil	1
92937.08	SSI-31-E-6"	06/12/2018	Soil	1
92937.10	SSI-30-W-6"	06/12/2018	Soil	1
92937.12	SSI-30-S-6"	06/12/2018	Soil	1
92937.14	SSI-30-N-6"	06/12/2018	Soil	1
92937.26	SSI-8-W-18"	06/12/2018	Soil	1

Continued

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91764**	**Project ID: LASD1-32.7** **Date Received 06/12/2018** **Date Reported 06/20/2018**
Telephone: (909)989-4449 **Attention: Mike Watson**	

Job Number	Order Date	Client
92937	06/12/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

92937.27	SSI-8-W-30"	06/12/2018	Soil	1
92937.29	SSI-3-W-18"	06/12/2018	Soil	1
92937.30	SSI-3-W-30"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/19/2018	2	Normal	mg/Kg

92937.16	SSI-29-W-6"	06/12/2018	Soil	1
92937.18	SSI-29-N-6"	06/12/2018	Soil	1
92937.20	SSI-28-W/29-E-6"	06/12/2018	Soil	1
92937.22	SSI-28-N-6"	06/12/2018	Soil	1
92937.24	SSI-28-E-6"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	06/19/2018	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Placeworks
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Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C2

Our Lab I.D.			Method Blank	92937.04	92937.06	92937.08	92937.10
Client Sample I.D.				SSI-31-N-6"	SSI-31-S-6"	SSI-31-E-6"	SSI-30-W-6"
Date Sampled				06/12/2018	06/12/2018	06/12/2018	06/12/2018
Date Prepared			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/18/2018	06/18/2018	06/18/2018	06/18/2018	06/18/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	79.1	4.81	17.7	39.0

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ANALYTICAL RESULTS

Ordered By

Placeworks
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Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson
Page: **3**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C2

Our Lab I.D.			92937.12	92937.14			
Client Sample I.D.			SSI-30-S-6"	SSI-30-N-6"			
Date Sampled			06/12/2018	06/12/2018			
Date Prepared			06/14/2018	06/14/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/18/2018	06/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	140	33.8			

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ANALYTICAL RESULTS

Ordered By

Placeworks
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Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson
Page: **4**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C3

Our Lab I.D.			Method Blank	92937.26	92937.27	92937.29	92937.30
Client Sample I.D.				SSI-8-W-18"	SSI-8-W-30"	SSI-3-W-18"	SSI-3-W-30"
Date Sampled				06/12/2018	06/12/2018	06/12/2018	06/12/2018
Date Prepared			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/18/2018	06/18/2018	06/18/2018	06/18/2018	06/18/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	5.47	3.06	3.71	1.09

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ANALYTICAL RESULTS

Ordered By

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2850 Inland Empire Blvd.
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Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson
Page: **5**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/14/2018				
Preparation Method			3050B				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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ANALYTICAL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C2

Our Lab I.D.			92937.16	92937.18	92937.20		
Client Sample I.D.			SSI-29-W-6"	SSI-29-N-6"	SSI-28-W/29-E-6"		
Date Sampled			06/12/2018	06/12/2018	06/12/2018		
Date Prepared			06/14/2018	06/14/2018	06/14/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/18/2018	06/18/2018	06/18/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.50	5	46.7	26.6	31.2		

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Page: **7**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/14/2018				
Preparation Method			3050B				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **8**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C3

Our Lab I.D.			92937.22	92937.24			
Client Sample I.D.			SSI-28-N-6"	SSI-28-E-6"			
Date Sampled			06/12/2018	06/12/2018			
Date Prepared			06/14/2018	06/14/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/18/2018	06/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	2.50	5	17.4	33.4			

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **9**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C2; Dup or Spiked Sample: 92937.04; LCS: Clean Sand; QC Prepared: 06/14/2018; QC Analyzed: 06/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**79.1**	**1.00**	**79.1 #**	**0.1**	**1.00**	**79.1 #**	**0.1**	**<1**	**80-120**	**<15**

QC Batch No: 0614181C2; Dup or Spiked Sample: 92937.04; LCS: Clean Sand; QC Prepared: 06/14/2018; QC Analyzed: 06/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.956**	**95.6**	**1.00**	**0.986**	**98.6**	**3.1**	**80-120**	**<15**	

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0614181C3; Dup or Spiked Sample: 92937.26; LCS: Clean Sand; QC Prepared: 06/14/2018; QC Analyzed: 06/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**5.47**	**1.00**	**6.13 #**	**66.0**	**1.00**	**6.35**	**88.0**	**28.6**	**80-120**	**<15**

QC Batch No: 0614181C3; Dup or Spiked Sample: 92937.26; LCS: Clean Sand; QC Prepared: 06/14/2018; QC Analyzed: 06/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.949**	**94.9**	**1.00**	**0.990**	**99.0**	**4.2**	**80-120**	**<15**	

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **11**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C2; Dup or Spiked Sample: 92937.04; LCS: Clean Sand; LCS Prepared: 06/14/2018; LCS Analyzed: 06/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.947**	**94.7**	**1.00**	**0.951**	**95.1**	**<1**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0614181C3; Dup or Spiked Sample: 92937.26; LCS: Clean Sand; QC Prepared: 06/14/2018; QC Analyzed: 06/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**19.1**	**1.00**	**20.1**	**100**	**1.00**	**20.1**	**100**	**<1**	**75-125**	**<15**

QC Batch No: 0614181C3; Dup or Spiked Sample: 92937.26; LCS: Clean Sand; QC Prepared: 06/14/2018; QC Analyzed: 06/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.956**	**95.6**	**1.00**	**0.982**	**98.2**	**2.7**	**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

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Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**13**
Date Received	**06/12/2018**
Date Reported	**06/29/2018**

Job Number	Order Date	Client
92937	06/12/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 7 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108729

AETL JOB No. 92937

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD, SUITE B, ONTARIO CA 91764
PHONE: 909 989 4949
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	STLC Arsenic	TCLP Arsenic	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-41-48"	92937.01	6/12/18	1209	Soil	glass jar	ice					X	*(7) Added 6/22
2	SSI-41-60"	92937.02		1211								X	
3	DUP 10	92937.03										X	
4	SSI-31-N-6"	92937.04		1218				X		*	*		
5	SSI-31-N-24"	92937.05		1220				*				X	
6	SSI-31-S-6"	92937.06		1228				X					
7	SSI-31-S-24"	92937.07		1230								X	
8	SSI-31-E-6"	92937.08		1234				X					
9	SSI-31-E-24"	92937.09		1236				*				X	
10	SSI-30-W-6"	92937.10		1243				X					
11	SSI-30-W-24"	92937.11		1245				*				X	
12	SSI-30-S-6"	92937.12		1251				X		*	*		
13	SSI-30-S-24"	92937.13		1253				*				X	
14	SSI-30-N-6"	92937.14		1259				X					
15	SSI-30-N-24"	92937.15		1301				*				X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name:
	Date: 6/12/18 Time: 1600	Date: Time:	Date: 6/12/18 Time: 1805
RECEIVED BY:	Signature:	Signature:	RECEIVED BY LABORATORY: AETL
	Printed Name: CHRISTIAN PINEDA	Printed Name:	Signature:
	Date: 6/12/18 Time: 1600	Date: Time:	Printed Name:
			Date: 06/12/18 Time: 1805

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CHAIN OF CUSTODY RECORD

108730

COMPANY PLACEWORKS | PROJECT MANAGER MIKE WATSON
COMPANY ADDRESS 2355 INLAND EMPIRE BL, SUITE B ONTARIO CA 91764 | PHONE 909 989 4449 | FAX
PROJECT NAME David Starr Jordan Senior HS SSI | PROJECT # LASD1-32.7
SITE NAME AND ADDRESS David Starr Jordan SHS 2265 E. 103rd St, CA, CA 90002 | PO #

AETL JOB No. 92937 | Page 4 of 5

	SAMPLE ID	LAB ID	DATE	TIME (MW)	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-29-W-6"	92937.16	6/12/18	1317	Soil	glass jar	ice		X		*(6) time 1311
2	SSI-29-W-24"	92937.17		1313						X	
3	SSI-29-N-6"	92937.18		1322					X		
4	SSI-29-N-24"	92937.19		1324						X	
5	SSI-28-W/29-E-6"	92937.20		1333					X		
6	SSI-28-W/29-E-24"	92937.21		1335						X	
7	SSI-28N-6"	92937.22		1343					X		
8	SSI-28N-24"	92937.23		1345						X	
9	SSI-28-E-6"	92937.24		1400					X		
10	SSI-28-E-24"	92937.25		1402						X	
11	SSI-8-W-18"	92937.26		1413				X			
12	SSI-8-W-30"	92937.27		1415				X			
13	SSI-8-W-42"	92937.28		1417						X	
14	SSI-3-W-18"	92937.29		1436				X			
15	SSI-3-W-30"	92937.30		1432				X			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name:
	Date: 6/12/18 Time: 1600	Date: Time:	Date: 6/12/18 Time: 1805
RECEIVED BY:	Signature:	Signature:	RECEIVED BY LABORATORY: AETL Signature:
	Printed Name: CAPRICIOUS PRINCELOO	Printed Name:	Printed Name:
	Date: 6/12/18 Time: 1600	Date: Time:	Date: 06/12/18 Time: 1805

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CHAIN OF CUSTODY RECORD

108731

AETL JOB No. 92937

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2350 INLAND EMPIRE BL, STE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-3-W-42"	92937-31	6/12/18	1434	Soil	glass jar	ice	X	*(o)
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	1	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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☐ GEOTRACKER (GLOBAL ID) ______
☐ OTHER (PLEASE SPECIFY) ______

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. Padilla
Date: 6/12/18 Time: 1600	Date: Time:	Date: 6/12/18 Time: 1805

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: Christian Padilla	Printed Name:	Printed Name: Ant
Date: 6/12/18 Time: 1600	Date: Time:	Date: 06/12/18 Time: 1805

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, June 22, 2018 2:29 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-12-2018 (2 of 2)
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-30-N-24", SSI-30-S-24", SSI-30-W-24", SSI-31-E-24", and SSI-31-N-24" for arsenic by EPA Method 6020.

Please run SSI-30-S-6" and SSI-31-N-6" for arsenic STLC and TCLP.

Use standard TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, June 21, 2018 5:26 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-12-2018 (2 of 2)

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan High School, Los Angeles, CA" .

AETL Job No: 92937

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/12/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92937	06/12/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 31 samples with the following specification on 06/12/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92937.01	SSI-41-48"	06/12/2018	Soil	1
92937.02	SSI-41-60"	06/12/2018	Soil	1
92937.03	DUP10	06/12/2018	Soil	1
92937.07	SSI-31-S-24"	06/12/2018	Soil	1
92937.17	SSI-29-W-24"	06/12/2018	Soil	1
92937.19	SSI-29-N-24"	06/12/2018	Soil	1
92937.21	SSI-28-W/29-E-24"	06/12/2018	Soil	1
92937.23	SSI-28-N-24"	06/12/2018	Soil	1
92937.25	SSI-28-E-24"	06/12/2018	Soil	1
92937.28	SSI-8-W-42"	06/12/2018	Soil	1
92937.31	SSI-3-W-42"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/19/2018	2	Normal	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92937.04	SSI-31-N-6"	06/12/2018	Soil	1
92937.12	SSI-30-S-6"	06/12/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	06/19/2018	2	Normal	mg/L
(6010B-STLC) ^ AS	06/19/2018	2	Normal	mg/L
(6020) ^ AS	06/19/2018	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92937.05	SSI-31-N-24"	06/12/2018	Soil	1
92937.06	SSI-31-S-6"	06/12/2018	Soil	1
92937.08	SSI-31-E-6"	06/12/2018	Soil	1
92937.09	SSI-31-E-24"	06/12/2018	Soil	1
92937.10	SSI-30-W-6"	06/12/2018	Soil	1
92937.11	SSI-30-W-24"	06/12/2018	Soil	1

Continued

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Attention: Mike Watson

Project ID: LASD1-32.7 **Date Received 06/12/2018** **Date Reported 06/29/2018**

Job Number	Order Date	Client
92937	06/12/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

92937.13	SSI-30-S-24"	06/12/2018	Soil	1
92937.14	SSI-30-N-6"	06/12/2018	Soil	1
92937.15	SSI-30-N-24"	06/12/2018	Soil	1
92937.26	SSI-8-W-18"	06/12/2018	Soil	1
92937.27	SSI-8-W-30"	06/12/2018	Soil	1
92937.29	SSI-3-W-18"	06/12/2018	Soil	1
92937.30	SSI-3-W-30"	06/12/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	06/19/2018	2	Normal	mg/Kg

92937.16	SSI-29-W-6"	06/12/2018	Soil	1
92937.18	SSI-29-N-6"	06/12/2018	Soil	1
92937.20	SSI-28-W/29-E-6"	06/12/2018	Soil	1
92937.22	SSI-28-N-6"	06/12/2018	Soil	1
92937.24	SSI-28-E-6"	06/12/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ PB	06/19/2018	2	Normal	mg/Kg

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			Method Blank	92937.05			
Client Sample I.D.				SSI-31-N-24"			
Date Sampled				06/12/2018			
Date Prepared			06/25/2018	06/25/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/26/2018	06/26/2018			
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			

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David Starr Jordan SHS
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Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			92937.09				
Client Sample I.D.			SSI-31-E-24"				
Date Sampled			06/12/2018				
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	5.25				

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David Starr Jordan SHS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			92937.11				
Client Sample I.D.			SSI-30-W-24"				
Date Sampled			06/12/2018				
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.67				

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David Starr Jordan SHS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			92937.13				
Client Sample I.D.			SSI-30-S-24"				
Date Sampled			06/12/2018				
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	5	10	226				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			92937.15				
Client Sample I.D.			SSI-30-N-24"				
Date Sampled			06/12/2018				
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.77				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/26/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/28/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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David Starr Jordan SHS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C4

Our Lab I.D.			92937.04	92937.12			
Client Sample I.D.			SSI-31-N-6"	SSI-30-S-6"			
Date Sampled			06/12/2018	06/12/2018			
Date Prepared			06/26/2018	06/26/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			06/28/2018	06/28/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	2.60	9.27			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C7

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/25/2018				
Preparation Method			1311				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C7

Our Lab I.D.			92937.04	92937.12			
Client Sample I.D.			SSI-31-N-6"	SSI-30-S-6"			
Date Sampled			06/12/2018	06/12/2018			
Date Prepared			06/25/2018	06/25/2018			
Preparation Method			1311	1311			
Date Analyzed			06/26/2018	06/26/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic (TCLP)	0.50	1.00	0.562J	3.04			

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QUALITY CONTROL RESULTS

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David Starr Jordan SHS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C7; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0625182C7; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; 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 (TCLP)	**10.0**	**10.0**	**100**	**10.0**	**10.1**	**101**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C4; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0626182C4; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; 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**	**9.38**	**93.8**	**10.0**	**9.49**	**94.9**	**1.17**	**80-120**	**<15**	

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David Starr Jordan SHS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92937	06/12/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2; Dup or Spiked Sample: 92937.05; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**2.19**	**1.00**	**2.97**	**78.0**	**1.00**	**3.08**	**89.0**	**13.2**	**80-120**	**<15**

QC Batch No: 0625181C2; Dup or Spiked Sample: 92937.05; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.930**	**93.0**	**1.00**	**0.950**	**95.2**	**2.34**	**80-120**	**<15**	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**11**
Date Received	**06/13/2018**
Date Reported	**06/29/2018**

Job Number	Order Date	Client
92955	06/13/2018	PLACE

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

108733

AETL JOB No. 92955

Page 1 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2040 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD 1-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	STLC Lead	TCLP Lead	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-2-S-18"		6/13/18	0809	Soil	glass jar	ice		X				92955.01
2	SSI-2-S-30"			0813					X				92955.02
3	SSI-2-S-42"			0814								X	92955.03
4	SSI-2-W-18"			0844					X				92955.04
5	SSI-2-W-30"			0846								X	92955.05
6	SSI-2-W-18"			0905					X				92955.06
7	SSI-2-W-30"			0907					X				92955.07
8	SSI-2-W-42"			0916								X	92955.08
9	SSI-2-W4-S-18"			0920				X	X				92955.09
10	SSI-2-W4-S-30"			0925				X	X				92955.08/10
11	SSI-2-W4-S-42"			0928								X	92955.09/11
12	SSI-2-E-18"			0939					X	*	*		92955.10
13	SSI-2-E-30"			0945					X				92955.13
14	SSI-2-E-42"			0948								X	92955.14
15	SSI-S-S-1"			1018				X	X				92955.15

Added *(1) 6/22

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		CHRISTINA PRAMILLA
Date: / Time:	6/13/18 1550		6/13/18 1745
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:			
Printed Name:	CHRISTINA PRAMILLA		
Date: / Time:	6/13/18 1550		06/13/18 1745

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

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CHAIN OF CUSTODY RECORD

108734

AETL JOB No. 92955

Page 2 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2350 INLAND EMPIRE BL SUITE B, ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD132-7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead		STLC Lead	TCLP Lead						HOLD	TEST INSTRUCTIONS & COMMENTS
																			* (2) Added 6/22
1	SSI-5-S-6"		6/13/18	1019	soil	glass jar	ice	X	X		*	*							92955 . 16
2	SSI-5-S-24"			1022														X	92955 . 17
3	SSI-5-E-1"			1034				X	X										92955 . 18
4	SSI-5-E-6"			1035				X	X										92955 . 19
5	SSI-5-E-24"			1040														X	92955 . 20
6	SSI-5-N-1"			1103				X	X										92955 . 21
7	SSI-5-N-6"			1104				X	X										92955 . 22
8	SSI-5-N-24"			1111				*										X	92955 . 23
9	SSI-4-E/5-W-6"			1220				X	X										92955 . 24
10	SSI-4-E/5-W-18"			1222				X	X										92955 . 25
11	SSI-4-E/5-W-30"			1226				X	X										92955 . 26
12	SSI-4-E/5-W-42"			1228														X	92955 . 27
13	DUP 1-1							X	X										92955 . 28
14	SSI-4-30"			1240				X	X										92955 . 29
15	DUP 1-2							X	X										92955 . 30

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PIZZILLO
Date: 6/13/18 Time: 1550	Date: Time:	Date: 6/13/18 Time: 1745
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CHARLIE PIZZILLO	Printed Name:	Printed Name:
Date: 6/13/18 Time: 1550	Date: Time:	Date: 06/13/18 Time: 1745

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CHAIN OF CUSTODY RECORD

108735

AETL JOB No. 92955

Page 3 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B, ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-4-42"		6/13/18	1244	Soil	glass jar	ice
2	DUP-13						
3	SSI-3E/4W-18"			1251			
4	DUP 14						
5	SSI-3-E/4-W-30"			1253			
6	SSI-3-E/4-W-42"			1256			
7	SSI-4-N-18"			1305			
8	SSI-4-N-30"			1308			
9	SSI-4-N-42"			1310			
10	SSI-7-S-18"			1314			
11	SSI-7-S-30"			1316			
12	SSI-7-S-42"			1318			
13	SSI-7-30"			1329			
14	SSI-7-42"			1331			
15	SSI-7-N-18"			1338			

ANALYSIS REQUESTED

SAMPLE ID	6020 Arsenic	6020 Lead	Hold
SSI-4-42"			X
DUP-13			X
SSI-3E/4W-18"	X	X	
DUP 14	X	X	
SSI-3-E/4-W-30"	X	X	
SSI-3-E/4-W-42"			X
SSI-4-N-18"	X	X	
SSI-4-N-30"	X	X	
SSI-4-N-42"			X
SSI-7-S-18"	X		
SSI-7-S-30"	X		
SSI-7-S-42"			X
SSI-7-30"	X		
SSI-7-42"	*		X
SSI-7-N-18"	X		

TEST INSTRUCTIONS & COMMENTS

*(1) Added 6/22

SAMPLE ID	LAB ID
SSI-4-42"	92955.31
DUP-13	92955.32
SSI-3E/4W-18"	92955.33
DUP 14	92955.34
SSI-3-E/4-W-30"	92955.35
SSI-3-E/4-W-42"	92955.36
SSI-4-N-18"	92955.37
SSI-4-N-30"	92955.38
SSI-4-N-42"	92955.39
SSI-7-S-18"	92955.40
SSI-7-S-30"	92955.41
SSI-7-S-42"	92955.42
SSI-7-30"	92955.43
SSI-7-42"	92955.44
SSI-7-N-18"	92955.45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature: [signature] Printed Name: MIKE WATSON Date: 6/13/18 Time: 1550	Signature: Printed Name: Date: Time:	Signature: [signature] Printed Name: C. PRIMILAND Date: 6/13/18 Time: 1745
RECEIVED BY:	Signature: [signature] Printed Name: CHRISTIAN PRIMILAND Date: 6/13/18 Time: 1550	Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: Printed Name: Date: 06/13/18 Time: 1745

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

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CHAIN OF CUSTODY RECORD

108736

AETL JOB No. 92955

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2355 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD 1-327
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E 103rd St, LA, CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-7-N-30"		6/13/18	1340	Soil	glass jar	ice	X			92955.46
2	SSI-7-N-42"		↓	1342	↓	↓	↓			X	92955.47
3	SSI-7-W-18"			1347				X			92955.48
4	SSI-7-W-30"			1350				X			92955.49
5	SSI-7-W-42"			1352						X	92955.50
6	SSI-8-E-18"			1414				X			92955.51
7	SSI-8-E-30"			1416				X			92955.52
8	SSI-8-E-42"			1418				*		X	92955.53
9	SSI-14-S-6"			1422				X			92955.54
10	SSI-14-S-18"			1424				X	X		time 1424 92955.55
11	DUP 15							X	X		92955.56
12	SSI-14-S-30"			1431				X			92955.57
13	SSI-14-S-48"			1433				X			92955.58
14	SSI-14-S-60"			1435				~~*~~		X	92955.59
15	DUP 16		↓		↓	↓	↓			X	92955.60

TEST INSTRUCTIONS & COMMENTS:
* (1) Added 6/22
~~(*) (1) Added 6/28~~ wc

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

	1.	2.	3.
RELINQUISHED BY	SAMPLER		
Signature	[signature]		[signature]
Printed Name	MIKE WATSON		C. [illegible]
Date	6/13/18		6/13/18
Time	1550		1745
RECEIVED BY			LABORATORY: AETL
Signature	[signature]		[signature]
Printed Name	CHARLTON [illegible]		[illegible]
Date	6/13/18		06/13/18
Time	1550		1745

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

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CHAIN OF CUSTODY RECORD

108737

AETL JOB No. 92955

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2350 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior High School SSJ
PROJECT #: LA501-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-8-N/15-S-6"		6/13/18	1444	Soil	glass jar	ice
2	SSI-8-N/15-S-18"			1446			
3	SSI-8-N/15-S-36"			1448			
4	SSI-8-N/15-S-48"			1450			
5	SSI-8-N/15-S-60"			1453			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

	6020 Arsenic	6020 Lead								HOLD
1	X									
2	X	X								
3	X									
4	X							92955	.64	
5										X

TEST INSTRUCTIONS & COMMENTS

(0)

92955.61
92955.62
92955.63
Sample ID "SSI-8-N/15-S-48"
92955.65

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	5	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS (Y) N / NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND. (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER: / RELINQUISHED BY:	Signature:	Signature:	Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PHILLIPS
	Date: 6/13/18 Time: 1550	Date: Time:	Date: 6/13/18 Time: 1745
RECEIVED BY: / RECEIVED BY LABORATORY:	Signature:	Signature:	Signature:
	Printed Name: CHRISTIAN PHILLIPS	Printed Name:	Printed Name:
	Date: 6/13/18 Time: 1550	Date: Time:	Date: 6/13/18 Time: 1745

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, June 22, 2018 2:32 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-13-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-5-N-24", SSI-7-42" and SSI-8-E-42" for arsenic by EPA Method 6020.

Please run SSI-2-E-18" and SSI-5-S-6" for lead STLC and TCLP.

Use standard TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, June 22, 2018 12:32 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-13-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan High School, Los Angeles, CA".

AETL Job No: 92955

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/13/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92955	06/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 65 samples with the following specification on 06/13/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92955.01	SSI-2-S-18"	06/13/2018	Soil	1
92955.02	SSI-2-S-30"	06/13/2018	Soil	1
92955.04	SSI-2-30"	06/13/2018	Soil	1
92955.06	SSI-2-W-18"	06/13/2018	Soil	1
92955.07	SSI-2-W-30"	06/13/2018	Soil	1
92955.13	SSI-2-E-30"	06/13/2018	Soil	1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***
	(6020) ^ PB	06/20/2018	2	Normal	mg/Kg
92955.03	SSI-2-S-42"	06/13/2018	Soil	1
92955.05	SSI-2-42"	06/13/2018	Soil	1
92955.08	SSI-2-W-42"	06/13/2018	Soil	1
92955.11	SSI-2-N/4-S-42"	06/13/2018	Soil	1
92955.14	SSI-2-E-42"	06/13/2018	Soil	1
92955.17	SSI-5-S-24"	06/13/2018	Soil	1
92955.20	SSI-5-E-24"	06/13/2018	Soil	1
92955.27	SSI-4-E/S-W-42"	06/13/2018	Soil	1
92955.31	SSI-4-42"	06/13/2018	Soil	1
92955.32	DUP13	06/13/2018	Soil	1
92955.36	SSI-3-E/4-W-42"	06/13/2018	Soil	1
92955.39	SSI-4-N-42"	06/13/2018	Soil	1
92955.42	SSI-7-S-42"	06/13/2018	Soil	1
92955.47	SSI-7-N-42"	06/13/2018	Soil	1
92955.50	SSI-7-W-42"	06/13/2018	Soil	1
92955.59	SSI-14-S-60"	06/13/2018	Soil	1
92955.60	DUP16	06/13/2018	Soil	1

Continued

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/13/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92955	06/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

92955.65	SSI-8-N/15-S-60"	06/13/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	ARCHIVE	06/20/2018	2	Normal	--	
92955.09	SSI-2-N/4-S-18"	06/13/2018	Soil			1
92955.10	SSI-2-N/4-S-30"	06/13/2018	Soil			1
92955.15	SSI-5-S-1"	06/13/2018	Soil			1
92955.18	SSI-5-E-1"	06/13/2018	Soil			1
92955.19	SSI-5-E-6"	06/13/2018	Soil			1
92955.21	SSI-5-N-1"	06/13/2018	Soil			1
92955.22	SSI-5-N-6"	06/13/2018	Soil			1
92955.24	SSI-4-E/5-W-6"	06/13/2018	Soil			1
92955.25	SSI-4-E/5-W-18"	06/13/2018	Soil			1
92955.26	SSI-4-E/5-W-30"	06/13/2018	Soil			1
92955.28	DUP11	06/13/2018	Soil			1
92955.29	SSI-4-30"	06/13/2018	Soil			1
92955.30	DUP12	06/13/2018	Soil			1
92955.33	SSI-3-E/4-W-18"	06/13/2018	Soil			1
92955.34	DUP14	06/13/2018	Soil			1
92955.35	SSI-3-E/4-W-30"	06/13/2018	Soil			1
92955.37	SSI-4-N-18"	06/13/2018	Soil			1
92955.38	SSI-4-N-30"	06/13/2018	Soil			1
92955.55	SSI-14-S-18"	06/13/2018	Soil			1
92955.56	DUP15	06/13/2018	Soil			1
92955.62	SSI-8-N/15-S-18"	06/13/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	(6020) ^ AS	06/20/2018	2	Normal	mg/Kg	
	(6020) ^ PB	06/20/2018	2	Normal	mg/Kg	
92955.12	SSI-2-E-18"	06/13/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	(6010/7000TCLP) ^ PB	06/20/2018	2	Normal	mg/L	

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/13/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92955	06/13/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

92955.12	SSI-2-E-18"	06/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B-STLC) ^ STLC-PB	06/20/2018	2	Normal	mg/L
(6020) ^ PB	06/20/2018	2	Normal	mg/Kg

92955.16	SSI-5-S-6"	06/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	06/20/2018	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	06/20/2018	2	Normal	mg/L
(6020) ^ AS	06/20/2018	2	Normal	mg/Kg
(6020) ^ PB	06/20/2018	2	Normal	mg/Kg

92955.23	SSI-5-N-24"	06/13/2018	Soil	1
92955.40	SSI-7-S-18"	06/13/2018	Soil	1
92955.41	SSI-7-S-30"	06/13/2018	Soil	1
92955.43	SSI-7-30"	06/13/2018	Soil	1
92955.44	SSI-7-42"	06/13/2018	Soil	1
92955.45	SSI-7-N-18"	06/13/2018	Soil	1
92955.46	SSI-7-N-30"	06/13/2018	Soil	1
92955.48	SSI-7-W-18"	06/13/2018	Soil	1
92955.49	SSI-7-W-30"	06/13/2018	Soil	1
92955.51	SSI-8-E-18"	06/13/2018	Soil	1
92955.52	SSI-8-E-30"	06/13/2018	Soil	1
92955.53	SSI-8-E-42"	06/13/2018	Soil	1
92955.54	SSI-14-S-6"	06/13/2018	Soil	1
92955.57	SSI-14-S-36"	06/13/2018	Soil	1
92955.58	SSI-14-S-48"	06/13/2018	Soil	1
92955.61	SSI-8-N/15-S-6"	06/13/2018	Soil	1
92955.63	SSI-8-N/15-S-36"	06/13/2018	Soil	1
92955.64	SSI-8-N/15-S-48"	06/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/20/2018	2	Normal	mg/Kg

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/13/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92955	06/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **2**

Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			Method Blank	92955.23			
Client Sample I.D.				SSI-5-N-24"			
Date Sampled				06/13/2018			
Date Prepared			06/25/2018	06/25/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/26/2018	06/26/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	2.98			

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Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **3**

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			92955.44				
Client Sample I.D.			SSI-7-42"				
Date Sampled			06/13/2018				
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	29.8				

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Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			92955.53				
Client Sample I.D.			SSI-8-E-42"				
Date Sampled			06/13/2018				
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.12				

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Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/26/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/28/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Site

David Starr Jordan SHS SSI
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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3

Our Lab I.D.			92955.12	92955.16			
Client Sample I.D.			SSI-2-E-18"	SSI-5-S-6"			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/26/2018	06/26/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			06/28/2018	06/28/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead (STLC)	0.50	1.00	2.32	1.88			

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Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**06/25/2018**				
Preparation Method			**1311**				
Date Analyzed			**06/26/2018**				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	**0.05**	**0.10**	**ND**				

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Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6

Our Lab I.D.			92955.12	92955.16			
Client Sample I.D.			SSI-2-E-18"	SSI-5-S-6"			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/25/2018	06/25/2018			
Preparation Method			1311	1311			
Date Analyzed			06/26/2018	06/26/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead (TCLP)	0.50	1.00	ND	ND			

Comment(s):
92955.12: Analyzed under dilution due to matrix interference 92955.16: Analyzed under dilution due to matrix interference

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **9**

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0625182C6; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; 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	
Lead (TCLP)	**10.0**	**9.22**	**92.2**	**10.0**	**9.15**	**91.5**	**<1**	**80-120**	**<15**	

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Page: **10**

Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**19.2**	**19.5**	**1.6**	**<20**						

QC Batch No: 0626182C3; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; 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	
Lead (STLC)	**10.0**	**8.63**	**86.3**	**10.0**	**8.69**	**86.9**	**<1**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **11**

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2; Dup or Spiked Sample: 92937.05; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**2.19**	**1.00**	**2.97**	**78.0**	**1.00**	**3.08**	**89.0**	**13.2**	**80-120**	**<15**

QC Batch No: 0625181C2; Dup or Spiked Sample: 92937.05; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.930**	**93.0**	**1.00**	**0.952**	**95.2**	**2.3**	**80-120**	**<15**	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Number of Pages	**49**
Date Received	**06/13/2018**
Date Reported	**06/21/2018**

Job Number	Order Date	Client
92955	06/13/2018	PLACE

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 44 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108733

AETL JOB No. 92955

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COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2040 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD 1-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2225 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: 6020 Arsenic	6020 Lead	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-2-S-18"		6/13/18	0908	soil	glass jar	ice		X		92955.01
2	SSI-2-S-30"			0913					X		92955.02
3	SSI-2-S-42"			0914						X	92955.03
4	SSI-2-E-30"			0844					X		92955.04
5	SSI-2-E-42"			0846						X	92955.05
6	SSI-2-W-18"			0905					X		92955.06
7	SSI-2-W-30"			0907					X		92955.07
8	SSI-2-W-42"			0916						X	92955.08
9	SSI-2-N-4-S-18"			0920				X	X		92955.09
10	SSI-2-N-4-S-30"			0925				X	X		92955.08 10
11	SSI-2-N-4-S-42"			0928						X	92955.09 11
12	SSI-2-E-18"			0939					X		92955.10
13	SSI-2-E-30"			0945					X		92955.13
14	SSI-2-E-42"			0948						X	92955.14
15	SSI-5-S-1"		↓	1018	↓	↓	↓	X	X		92955.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. ROMILLO
Date: 6/13/18 Time: 1550	Date: Time:	Date: 6/13/18 Time: 1745
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** AETL 3.
Signature:	Signature:	Signature:
Printed Name: C. ROMILLO	Printed Name:	Printed Name:
Date: 6/13/18 Time: 1550	Date: Time:	Date: 06/13/18 Time: 1745

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

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CHAIN OF CUSTODY RECORD

108734

AETL JOB No. 92955

Page 2 of 5

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE / FAX	PHONE 909 989 4449
PROJECT NAME	David Starr Jordan Senior HS SSI
PROJECT #	LASDI-32.7
SITE NAME AND ADDRESS	David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-5-S-6"		6/13/18	1019	soil	glass jar	ice	X	X		92955 . 16
2	SSI-5-S-24"			1022						X	92955 . 17
3	SSI-5-E-1"			1034				X	X		92955 . 18
4	SSI-5-E-6"			1035				X	X		92955 . 19
5	SSI-5-E-24"			1040						X	92955 . 20
6	SSI-5-N-1"			1103				X	X		92955 . 21
7	SSI-5-N-6"			1104				X	X		92955 . 22
8	SSI-5-N-24"			1111						X	92955 . 23
9	SSI-4-E/5-W-6"			1220				X	X		92955 . 24
10	SSI-4-E/5-W-18"			1223				X	X		92955 . 25
11	SSI-4-E/5-W-30"			1226				X	X		92955 . 26
12	SSI-4-E/5-W-42"			1228						X	92955 . 27
13	DUP11							X	X		92955 . 28
14	SSI-4-30"			1240				X	X		92955 . 29
15	DUP12							X	X		92955 . 30

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature			
Printed Name	MIKE WATSON		C. RAMILLO
Date / Time	6/13/18 1550		6/13/18 1745
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature			
Printed Name	CHARLOTTE RAMILLO		
Date / Time	6/13/18 1550		06/13/18 1745

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CHAIN OF CUSTODY RECORD

108735

AETL JOB No. 92955

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 3ss INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-4-42"		6/13/18	1244	Soil	glass jar	ice			X	92955 . 31
2	DUP 13									X	92955 . 32
3	SSI-3E/4-W-18"			1251				X	X		92955 . 33
4	DUP 14							X	X		92955 . 34
5	SSI-3-E/4-W-30"			1253				X	X		92955 . 35
6	SSI-3-E/4-W-42"			1256						X	92955 . 36
7	SSI-4-N-18"			1305				X	X		92955 . 37
8	SSI-4-N-30"			1308				X	X		92955 . 38
9	SSI-4-N-42"			1310						X	92955 . 39
10	SSI-7-S-18"			1314				X			92955 . 40
11	SSI-7-S-30"			1316				X			92955 . 41
12	SSI-7-S-42"			1318						X	92955 . 42
13	SSI-7-30"			1329				X			92955 . 43
14	SSI-7-42"			133						X	92955 . 44
15	SSI-7-N-18"			1338				X			92955 . 45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	[signature]		[signature]
Printed Name:	MIKE WATSON		C. [illegible]
Date:	6/13/18	Time:	Date: 6/13/18 Time: 1745

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:	[signature]		[signature]
Printed Name:	CHRISTIAN PALACIOS		[illegible]
Date:	6/13/18 Time: 1550	Time:	Date: 06/13/18 Time: 1745

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

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CHAIN OF CUSTODY RECORD

108736

AETL JOB No. 92955

Page 4 of 5

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2359 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE / FAX	909 989 4449
PROJECT NAME	David Starr Jordan Senior HS SSI
PROJECT #	LASDI-327
SITE NAME AND ADDRESS	David Starr Jordan SHS 2265 E 103rd St, LA, CA 90002
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: 6020 Arsenic	6020 Lead	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-7-N-30"		6/13/18	1340	soil	glass jar	ice	X			92955.46
2	SSI-7-N-42"			1342						X	92955.47
3	SSI-7-W-18"			1347				X			92955.48
4	SSI-7-W-30"			1350				X			92955.49
5	SSI-7-W-42"			1352						X	92955.50
6	SSI-8-E-18"			1414				X			92955.51
7	SSI-8-E-30"			1416				X			92955.52
8	SSI-8-E-42"			1418						X	92955.53
9	SSI-14-S-6"			1422				X			92955.54
10	SSI-14-S-18"			1424				X	X		time 1424 92955.55
11	DUP 15							X	X		92955.56
12	SSI-14-S-36"			1431				X			92955.57
13	SSI-14-S-48"			1433				X			92955.58
14	SSI-14-S-60"			1435						X	92955.59
15	DUP 16		↓		↓	↓	↓			X	92955.60

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name:
	Date: 6/13/18 Time: 1550	Date: Time:	Date: 6/13/18 Time: 1745
RECEIVED BY:	Signature:	Signature:	Signature:
	Printed Name: CHRISTOPHER RAMIREZ	Printed Name:	Printed Name:
	Date: 6/13/18 Time: 1550	Date: Time:	Date: 6/13/18 Time: 1745

RECEIVED BY LABORATORY: AETL

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CHAIN OF CUSTODY RECORD

108737

AETL JOB No. 92955

Page 5 of 5

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE	909 989 4449
FAX	
PROJECT NAME	David Starr Jordan Senior High School SSI
PROJECT #	LA501-32.7
SITE NAME AND ADDRESS	David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-8-N/15-S-6"		6/13/18	1444	soil	glass jar	ice
2	SSI-8-N/15-S-18"			1446			
3	SSI-8-N/15-S-36"			1448			
4	SSI-8-N/15-S-48"			1450			
5	SSI-8-N/15-S-60"			1453			
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

	6020 Arsenic	6020 Lead								HOLD	TEST INSTRUCTIONS & COMMENTS
1	X										92955.61
2	X	X									92955.62
3	X										92955.63
4	X						92955	.64			sample ID "SSI-8-N/15-S-48"
5										X	92955.65

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	5	PROPERLY COOLED	Y / N / NA
CUSTODY SEALS	Y / N / NA	SAMPLES INTACT	Y / N / NA
RECEIVED IN GOOD COND.	Y / N	SAMPLES ACCEPTED	Y / N

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY:	SAMPLER:		
Signature:			
Printed Name:	MIKE WATSON		C. RAMIREZ
Date:	6/13/18		6/13/18
Time:	1550		1745
RECEIVED BY:			RECEIVED BY LABORATORY: AETL
Signature:			
Printed Name:	CHARLYNN PRICHARD		
Date:	6/13/18		06/13/18
Time:	1550		1745

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

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COOLER RECEIPT FORM

Client Name: PlaceWorks
Project Name:
AETL Job Number: 92955
Date Received: 06/13/18 Received by: Austin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

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

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/13/2018
Date Reported 06/21/2018

Job Number	Order Date	Client
92955	06/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 65 samples with the following specification on 06/13/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92955.01	SSI-2-S-18"	06/13/2018	Soil	1
92955.02	SSI-2-S-30"	06/13/2018	Soil	1
92955.04	SSI-2-30"	06/13/2018	Soil	1
92955.06	SSI-2-W-18"	06/13/2018	Soil	1
92955.07	SSI-2-W-30"	06/13/2018	Soil	1
92955.13	SSI-2-E-30"	06/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	06/20/2018	2	Normal	mg/Kg

92955.03	SSI-2-S-42"	06/13/2018	Soil	1
92955.05	SSI-2-42"	06/13/2018	Soil	1
92955.08	SSI-2-W-42"	06/13/2018	Soil	1
92955.11	SSI-2-N/4-S-42"	06/13/2018	Soil	1
92955.14	SSI-2-E-42"	06/13/2018	Soil	1
92955.17	SSI-5-S-24"	06/13/2018	Soil	1
92955.20	SSI-5-E-24"	06/13/2018	Soil	1
92955.27	SSI-4-E/S-W-42"	06/13/2018	Soil	1
92955.31	SSI-4-42"	06/13/2018	Soil	1
92955.32	DUP13	06/13/2018	Soil	1
92955.36	SSI-3-E/4-W-42"	06/13/2018	Soil	1
92955.39	SSI-4-N-42"	06/13/2018	Soil	1
92955.42	SSI-7-S-42"	06/13/2018	Soil	1
92955.47	SSI-7-N-42"	06/13/2018	Soil	1
92955.50	SSI-7-W-42"	06/13/2018	Soil	1
92955.59	SSI-14-S-60"	06/13/2018	Soil	1
92955.60	DUP16	06/13/2018	Soil	1

Continued

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/13/2018
Date Reported 06/21/2018

Job Number	Order Date	Client
92955	06/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

92955.65	SSI-8-N/15-S-60"	06/13/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	ARCHIVE	06/20/2018	2	Normal	--	
92955.09	SSI-2-N/4-S-18"	06/13/2018	Soil			1
92955.10	SSI-2-N/4-S-30"	06/13/2018	Soil			1
92955.15	SSI-5-S-1"	06/13/2018	Soil			1
92955.18	SSI-5-E-1"	06/13/2018	Soil			1
92955.19	SSI-5-E-6"	06/13/2018	Soil			1
92955.21	SSI-5-N-1"	06/13/2018	Soil			1
92955.22	SSI-5-N-6"	06/13/2018	Soil			1
92955.24	SSI-4-E/5-W-6"	06/13/2018	Soil			1
92955.25	SSI-4-E/5-W-18"	06/13/2018	Soil			1
92955.26	SSI-4-E/5-W-30"	06/13/2018	Soil			1
92955.28	DUP11	06/13/2018	Soil			1
92955.29	SSI-4-30"	06/13/2018	Soil			1
92955.30	DUP12	06/13/2018	Soil			1
92955.33	SSI-3-E/4-W-18"	06/13/2018	Soil			1
92955.34	DUP14	06/13/2018	Soil			1
92955.35	SSI-3-E/4-W-30"	06/13/2018	Soil			1
92955.37	SSI-4-N-18"	06/13/2018	Soil			1
92955.38	SSI-4-N-30"	06/13/2018	Soil			1
92955.55	SSI-14-S-18"	06/13/2018	Soil			1
92955.56	DUP15	06/13/2018	Soil			1
92955.62	SSI-8-N/15-S-18"	06/13/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	(6020) ^ AS	06/20/2018	2	Normal	mg/Kg	
	(6020) ^ PB	06/20/2018	2	Normal	mg/Kg	
92955.12	SSI-2-E-18"	06/13/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	(6010/7000TCLP) ^ PB	06/20/2018	2	Normal	mg/L	

Continued

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/13/2018
Date Reported 06/21/2018

Job Number	Order Date	Client
92955	06/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

92955.12	SSI-2-E-18"	06/13/2018	Soil		1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B-STLC) ^ STLC-PB	06/20/2018	2	Normal	mg/L
(6020) ^ PB	06/20/2018	2	Normal	mg/Kg

92955.16	SSI-5-S-6"	06/13/2018	Soil		1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	06/20/2018	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	06/20/2018	2	Normal	mg/L
(6020) ^ AS	06/20/2018	2	Normal	mg/Kg
(6020) ^ PB	06/20/2018	2	Normal	mg/Kg

92955.23	SSI-5-N-24"	06/13/2018	Soil		1
92955.40	SSI-7-S-18"	06/13/2018	Soil		1
92955.41	SSI-7-S-30"	06/13/2018	Soil		1
92955.43	SSI-7-30"	06/13/2018	Soil		1
92955.44	SSI-7-42"	06/13/2018	Soil		1
92955.45	SSI-7-N-18"	06/13/2018	Soil		1
92955.46	SSI-7-N-30"	06/13/2018	Soil		1
92955.48	SSI-7-W-18"	06/13/2018	Soil		1
92955.49	SSI-7-W-30"	06/13/2018	Soil		1
92955.51	SSI-8-E-18"	06/13/2018	Soil		1
92955.52	SSI-8-E-30"	06/13/2018	Soil		1
92955.53	SSI-8-E-42"	06/13/2018	Soil		1
92955.54	SSI-14-S-6"	06/13/2018	Soil		1
92955.57	SSI-14-S-36"	06/13/2018	Soil		1
92955.58	SSI-14-S-48"	06/13/2018	Soil		1
92955.61	SSI-8-N/15-S-6"	06/13/2018	Soil		1
92955.63	SSI-8-N/15-S-36"	06/13/2018	Soil		1
92955.64	SSI-8-N/15-S-48"	06/13/2018	Soil		1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/20/2018	2	Normal	mg/Kg

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
92955	06/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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Site

David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C4

Our Lab I.D.			Method Blank	92955.09	92955.10	92955.15	92955.16
Client Sample I.D.				SSI-2-N/4-S-18"	SSI-2-N/4-S-30"	SSI-5-S-1"	SSI-5-S-6"
Date Sampled				06/13/2018	06/13/2018	06/13/2018	06/13/2018
Date Prepared			06/18/2018	06/18/2018	06/18/2018	06/18/2018	06/18/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	3.42	2.71	3.24	3.34

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David Starr Jordan SHS SSI
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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C5

Our Lab I.D.			Method Blank	92955.18	92955.19		
Client Sample I.D.				SSI-5-E-1"	SSI-5-E-6"		
Date Sampled				06/13/2018	06/13/2018		
Date Prepared			06/18/2018	06/18/2018	06/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/19/2018	06/19/2018	06/19/2018		
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	9.38	10.1		

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C5

Our Lab I.D.			92955.21	92955.22			
Client Sample I.D.			SSI-5-N-1"	SSI-5-N-6"			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/19/2018	06/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	14.0	42.8			

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C5

Our Lab I.D.			92955.24	92955.25	92955.26	92955.28	92955.29
Client Sample I.D.			SSI-4-E/5-W-6"	SSI-4-E/5-W-18"	SSI-4-E/5-W-30"	DUP11	SSI-4-30"
Date Sampled			06/13/2018	06/13/2018	06/13/2018	06/13/2018	06/13/2018
Date Prepared			06/18/2018	06/18/2018	06/18/2018	06/18/2018	06/18/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	8.04	2.49	4.33	7.70	3.94

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C5

Our Lab I.D.			92955.30	92955.33			
Client Sample I.D.			DUP12	SSI-3-E/4-W-18"			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/19/2018	06/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	3.85	11.0			

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David Starr Jordan SHS SSI
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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C6

Our Lab I.D.			Method Blank	92955.34	92955.35		
Client Sample I.D.				DUP14	SSI-3-E/4-W-30"		
Date Sampled				06/13/2018	06/13/2018		
Date Prepared			06/18/2018	06/18/2018	06/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/19/2018	06/19/2018	06/19/2018		
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	10.9	3.80		

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C6

Our Lab I.D.			92955.37				
Client Sample I.D.			SSI-4-N-18"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	19.2				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C6

Our Lab I.D.			92955.38				
Client Sample I.D.			SSI-4-N-30"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.16				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C6

Our Lab I.D.			**92955.40**				
Client Sample I.D.			SSI-7-S-18"				
Date Sampled			**06/13/2018**				
Date Prepared			**06/18/2018**				
Preparation Method			**3050B**				
Date Analyzed			**06/19/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	**0.50**	**1.00**	**19.9**				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C6

Our Lab I.D.			92955.41				
Client Sample I.D.			SSI-7-S-30"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	11.1				

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David Starr Jordan SHS SSI
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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C6

Our Lab I.D.			92955.43	92955.45			
Client Sample I.D.			SSI-7-30"	SSI-7-N-18"			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/19/2018	06/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	55.6	29.7			

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David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C6

Our Lab I.D.			92955.46	92955.48	92955.49		
Client Sample I.D.			SSI-7-N-30"	SSI-7-W-18"	SSI-7-W-30"		
Date Sampled			06/13/2018	06/13/2018	06/13/2018		
Date Prepared			06/18/2018	06/18/2018	06/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/19/2018	06/19/2018	06/19/2018		
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	3.84	7.78	3.80		

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David Starr Jordan SHS SSI
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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C7

Our Lab I.D.			Method Blank	92955.51	92955.52	92955.54	92955.55
Client Sample I.D.				SSI-8-E-18"	SSI-8-E-30"	SSI-14-S-6"	SSI-14-S-18"
Date Sampled				06/13/2018	06/13/2018	06/13/2018	06/13/2018
Date Prepared			06/18/2018	06/18/2018	06/18/2018	06/18/2018	06/18/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	10.5	12.6	8.78	12.1

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C7

Our Lab I.D.			92955.56	92955.57	92955.58	92955.61	92955.62
Client Sample I.D.			DUP15	SSI-14-S-36"	SSI-14-S-48"	SSI-8-N/15-S-6"	SSI-8-N/15-S-18"
Date Sampled			06/13/2018	06/13/2018	06/13/2018	06/13/2018	06/13/2018
Date Prepared			06/18/2018	06/18/2018	06/18/2018	06/18/2018	06/18/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	10.6	5.30	1.89	9.58	10.5

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C7

Our Lab I.D.			92955.63	92955.64			
Client Sample I.D.			SSI-8-N/15-S -36"	SSI-8-N/15-S -48"			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/19/2018	06/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	4.00	1.76			

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David Starr Jordan SHS SSI
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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David Starr Jordan SHS SSI
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Los Angeles, CA 90002

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.01				
Client Sample I.D.			SSI-2-S-18"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	28.5				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.02	92955.04			
Client Sample I.D.			SSI-2-S-30"	SSI-2-30"			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/19/2018	06/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	4.28	4.47			

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.06				
Client Sample I.D.			SSI-2-W-18"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	15.2				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.07				
Client Sample I.D.			SSI-2-W-30"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	5.20				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.09				
Client Sample I.D.			SSI-2-N/4-S-18"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	20.4				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.10				
Client Sample I.D.			SSI-2-N/4-S-30"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	4.67				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.12				
Client Sample I.D.			SSI-2-E-18"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	56.1				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.13				
Client Sample I.D.			SSI-2-E-30"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	3.93				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4

Our Lab I.D.			92955.15	92955.16			
Client Sample I.D.			SSI-5-S-1"	SSI-5-S-6"			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/19/2018	06/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	2.50	5	20.4	50.3			

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5

Our Lab I.D.			92955.18				
Client Sample I.D.			SSI-5-E-1"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	30.1				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5

Our Lab I.D.			92955.19				
Client Sample I.D.			SSI-5-E-6"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	10.5				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5

Our Lab I.D.			92955.21	92955.22	92955.24	92955.25	
Client Sample I.D.			SSI-5-N-1"	SSI-5-N-6"	SSI-4-E/5-W-6"	SSI-4-E/5-W-18"	
Date Sampled			06/13/2018	06/13/2018	06/13/2018	06/13/2018	
Date Prepared			06/18/2018	06/18/2018	06/18/2018	06/18/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			06/19/2018	06/19/2018	06/19/2018	06/19/2018	
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**	
Lead	2.50	5	47.8	42.2	28.8	20.4	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5

Our Lab I.D.			92955.26				
Client Sample I.D.			SSI-4-E/5-W-30"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	5.62				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5

Our Lab I.D.			92955.28				
Client Sample I.D.			DUP11				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	36.9				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5

Our Lab I.D.			92955.29	92955.30			
Client Sample I.D.			SSI-4-30"	DUP12			
Date Sampled			06/13/2018	06/13/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/19/2018	06/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	7.39	6.43			

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5

Our Lab I.D.			92955.33				
Client Sample I.D.			SSI-3-E/4-W-18"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	32.4				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C6

Our Lab I.D.			92955.34				
Client Sample I.D.			DUP14				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	41.7				

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David Starr Jordan SHS SSI
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Los Angeles, CA 90002

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C6

Our Lab I.D.			92955.35				
Client Sample I.D.			SSI-3-E/4-W-30"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	6.40				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C6

Our Lab I.D.			92955.37				
Client Sample I.D.			SSI-4-N-18"				
Date Sampled			06/13/2018				
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	40.6				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C6

Our Lab I.D.			**92955.38**				
Client Sample I.D.			SSI-4-N-30"				
Date Sampled			**06/13/2018**				
Date Prepared			**06/18/2018**				
Preparation Method			**3050B**				
Date Analyzed			**06/19/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	**0.25**	**0.50**	**4.84**				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C7

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/18/2018				
Preparation Method			3050B				
Date Analyzed			06/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C7

Our Lab I.D.			92955.55	92955.56	92955.62		
Client Sample I.D.			SSI-14-S-18"	DUP15	SSI-8-N/15-S -18"		
Date Sampled			06/13/2018	06/13/2018	06/13/2018		
Date Prepared			06/18/2018	06/18/2018	06/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/19/2018	06/19/2018	06/19/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.50	5	31.3	32.8	22.3		

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C4; Dup or Spiked Sample: 92955.01; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**4.91**	**1.00**	**5.96**	**105**	**1.00**	**6.12 #**	**121**	**14.2**	**80-120**	**<15**

QC Batch No: 0618181C4; Dup or Spiked Sample: 92955.01; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.933**	**93.3**	**1.00**	**0.928**	**92.8**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C5; Dup or Spiked Sample: 92955.18; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**9.38**	**1.00**	**11.1 #**	**172**	**1.00**	**11.5 #**	**212**	**20.8**	**80-120**	**<15**

QC Batch No: 0618181C5; Dup or Spiked Sample: 92955.18; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.849**	**84.9**	**1.00**	**0.869**	**86.9**	**2.3**	**80-120**	**<15**	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C6; Dup or Spiked Sample: 92955.34; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**10.9**	**1.00**	**11.1 #**	**20.0**	**1.00**	**11.4 #**	**50.0**	**85.7**	**80-120**	**<15**

QC Batch No: 0618181C6; Dup or Spiked Sample: 92955.34; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.806**	**80.6**	**1.00**	**0.836**	**83.6**	**3.7**	**80-120**	**<15**	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0618181C7; Dup or Spiked Sample: 92955.51; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**10.5**	**1.00**	**13.1 #**	**260**	**1.00**	**13.4 #**	**290**	**10.9**	**80-120**	**<15**

QC Batch No: 0618181C7; Dup or Spiked Sample: 92955.51; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.985**	**98.5**	**1.00**	**0.976**	**97.6**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C4; Dup or Spiked Sample: 92955.01; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**28.5**	**1.00**	**28.5 #**	**0.1**	**1.00**	**28.5 #**	**0.1**	**<1**	**75-125**	**<15**

QC Batch No: 0618181C4; Dup or Spiked Sample: 92955.01; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.909**	**90.9**	**1.00**	**0.912**	**91.2**	**<1**	**75-125**	**<15**	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C5; Dup or Spiked Sample: 92955.18; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**30.1**	**1.00**	**30.1 #**	**0.1**	**1.00**	**30.1 #**	**0.1**	**<1**	**75-125**	**<15**

QC Batch No: 0618181C5; Dup or Spiked Sample: 92955.18; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.863**	**86.3**	**1.00**	**0.845**	**84.5**	**2.1**	**75-125**	**<15**	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C6; Dup or Spiked Sample: 92955.34; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**41.7**	**1.00**	**41.7 #**	**0.1**	**1.00**	**41.7 #**	**0.1**	**<1**	**75-125**	**<15**

QC Batch No: 0618181C6; Dup or Spiked Sample: 92955.34; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.829**	**82.9**	**1.00**	**0.831**	**83.1**	**<1**	**75-125**	**<15**	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
92955	06/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0618181C7; Dup or Spiked Sample: 92955.51; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**29.8**	**1.00**	**29.8 #**	**0.1**	**1.00**	**29.8 #**	**0.1**	**<1**	**75-125**	**<15**

QC Batch No: 0618181C7; Dup or Spiked Sample: 92955.51; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.958**	**95.8**	**1.00**	**0.951**	**95.1**	**<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

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Number of Pages	**24**
Date Received	**06/14/2018**
Date Reported	**06/22/2018**

Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
92971	06/14/2018	PLACE

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 30 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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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

CHAIN OF CUSTODY RECORD

108778

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St, LA, CA 90002
PO #:

AETL JOB No. 92971

Page 1 of 5

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-46-6"	92971.01	6/14/18	0739	Soil	glass jar	ice
2	SSI-46-18"	92971.02		0741			
3	SSI-46-36"	92971.03		0742			
4	SSI-46-48"	92971.04		0744			
5	SSI-46-60"	92971.05		0745			
6	SSI45-6"	92971.06		0750			
7	SSI-45-18"	92971.07		0753			
8	SSI-45-36"	92971.08		0755			
9	SSI-45-48"	92971.09		0757			
10	SSI-45-60"	92971.10		0758			
11	SSI-44-6"	92971.11		0803			
12	SSI-44-18"	92971.12		0804			
13	SSI-44-36"	92971.13		0806			
14	SSI44-48"	92971.14		0808			
15	SSI-44-60"	92971.15		0809			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead									HOLD
X	X									
X	X									
X	X									
										X
										X
X	X									
X	X									
X	X									
										X
										X
X	X									
X	X									
X	X									
										X
										X

TEST INSTRUCTIONS & COMMENTS

See page 5 for *RUSH* samples & lab 5035 extraction for one sample

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PANTILLAS
Date: 6/14/18 Time: 1430	Date: Time:	Date: 6/14/18 Time: 1550
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CHARLTON PANTILLAS	Printed Name:	Printed Name: Anti-
Date: 6/14/18 Time: 1430	Date: Time:	Date: 06/14/18 Time: 1550

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

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CHAIN OF CUSTODY RECORD

108779

AETL JOB No. 92971

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE, SITE B ONTARIO, CA 91764
PHONE: 9099894449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #:

ANALYSIS REQUESTED

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-43-6"	92971.16	6/14/18	0817	Soil	glass jar	ice	X	X		
2	SSI-43-18"	92971.17	↓	0819	↓	↓	↓	X	X		
3	SSI-43-36"	92971.18		0821				X	X		
4	SSI-43-48"	92971.19		0823						X	
5	SSI-43-60"	92971.20		0825						X	
6	SSI-42-6"	92971.21		0831				X	X		
7	DUP17	92971.22						X	X		
8	SSI-42-18"	92971.23		0833				X	X		
9	SSI-42-36"	92971.24		0835				X	X		
10	SSI-42-48"	92971.25		0838						X	
11	SSI-42-60"	92971.26		0840						X	
12	SSI-6-N/10-S-6"	92971.27		0901				X			
13	SSI-6-N/10-S-18"	92971.28		0903				X	X		
14	SSI-6-N/10-S-36"	92971.29		0905				X	X		
15	SSI-6-N/10-S-40"	92971.30	↓	0907	↓	↓	↓	X	X		

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PADILLA
Date: 6/14/18 Time: 1430	Date: Time:	Date: 6/14/18 Time: 1550
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: CARLOS PADILLA	Printed Name:	Printed Name: Anti—
Date: 6/14/18 Time: 1430	Date: Time:	Date: 06/14/18 Time: 1550

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

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CHAIN OF CUSTODY RECORD

108780

AETL JOB No. 92971

Page 3 of 5

COMPANY: PlaceWorks
PROJECT MANAGER: Mike Watson
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, STE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd ST, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: 6020 Arsenic	6020 Lead	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-6-N/10-5-60"		6/14/18	0910	Soil	Glass jar	ice	X			92971.31
2	SSI-12-5/13-5-18"			0920				X	X		92971.32
3	SSI-12-5/13-5-36"			0922				X	X		92971.33
4	SSI-12-5/13-5-48"			0924				X	X		92971.34
5	SSI-12-5/13-5-60"			0925						X	92971.35
6	SSI-7-E-18"			0954				X			92971.36
7	SSI-7-E-30"			0957				X			92971.37
8	SSI-7-E-42"			0940						X	92971.38
9	SSI-6-W-18"			0945				X	X		92971.39
10	SSI-6-W-30"			0947				X	X		92971.40
11	SSI-6-W-42"			0949						X	92971.41
12	SSI-6-30"			0959				X	X		92971.42
13	DUP 18							X	X		92971.43
14	SSI-6-42"			1001						X	92971.44
15	DUP 19									X	92971.45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		C. FRANCISCO
Date:	6/14/18	Time:	Date: 6/14/18 Time: 1550
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	CHRISTIAN FRANCISCO		
Date:	6/14/18 Time: 1430	Time:	Date: 06/14/18 Time: 1550

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

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COOLER RECEIPT FORM

Client Name: PlaceWork
Project Name:
AETL Job Number: 92971, 92972
Date Received: 06/14/18 Received by: Austin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify): c
Inside temperature of shipping container No 1: 3.3, No 2: 3.2, No 3: ____
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): 5x5035kits 7x acetate tube
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, ☒ MeOH
_ Other (Specify): $NaHSO_4H_2O$

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/14/2018
Date Reported 06/22/2018

Job Number	Order Date	Client
92971	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 45 samples with the following specification on 06/14/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92971.01	SSI-46-6"	06/14/2018	Soil	1
92971.02	SSI-46-18"	06/14/2018	Soil	1
92971.03	SSI-46-36"	06/14/2018	Soil	1
92971.06	SSI-45-6"	06/14/2018	Soil	1
92971.07	SSI-45-18"	06/14/2018	Soil	1
92971.08	SSI-45-36"	06/14/2018	Soil	1
92971.11	SSI-44-6"	06/14/2018	Soil	1
92971.12	SSI-44-18"	06/14/2018	Soil	1
92971.13	SSI-44-36"	06/14/2018	Soil	1
92971.16	SSI-43-6"	06/14/2018	Soil	1
92971.17	SSI-43-18"	06/14/2018	Soil	1
92971.18	SSI-43-36"	06/14/2018	Soil	1
92971.21	SSI-42-6"	06/14/2018	Soil	1
92971.22	DUP17	06/14/2018	Soil	1
92971.23	SSI-42-18"	06/14/2018	Soil	1
92971.24	SSI-42-36"	06/14/2018	Soil	1
92971.28	SSI-6-N/10-S-18"	06/14/2018	Soil	1
92971.29	SSI-6-N/10-S-36"	06/14/2018	Soil	1
92971.30	SSI-6-N/10-S-40"	06/14/2018	Soil	1
92971.32	SSI-12-S/13-S-18"	06/14/2018	Soil	1
92971.33	SSI-12-S/13-S-36"	06/14/2018	Soil	1
92971.34	SSI-12-S/13-S-48"	06/14/2018	Soil	1
92971.39	SSI-6-W-18"	06/14/2018	Soil	1
92971.40	SSI-6-W-30"	06/14/2018	Soil	1

Continued

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Ordered By

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Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/14/2018
Date Reported 06/22/2018

Job Number	Order Date	Client
92971	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

92971.42	SSI-6-30"	06/14/2018	Soil			1
92971.43	DUP18	06/14/2018	Soil			1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg
(6020) ^ PB	06/21/2018	2	Normal	mg/Kg

92971.04	SSI-46-48"	06/14/2018	Soil			1
92971.05	SSI-46-60"	06/14/2018	Soil			1
92971.09	SSI-45-48"	06/14/2018	Soil			1
92971.10	SSI-45-60"	06/14/2018	Soil			1
92971.14	SSI-44-48"	06/14/2018	Soil			1
92971.15	SSI-44-60"	06/14/2018	Soil			1
92971.19	SSI-43-48"	06/14/2018	Soil			1
92971.20	SSI-43-60"	06/14/2018	Soil			1
92971.25	SSI-42-48"	06/14/2018	Soil			1
92971.26	SSI-42-60"	06/14/2018	Soil			1
92971.35	SSI-12-S/13-S-60"	06/14/2018	Soil			1
92971.38	SSI-7-E-42"	06/14/2018	Soil			1
92971.41	SSI-6-W-42"	06/14/2018	Soil			1
92971.44	SSI-6-42"	06/14/2018	Soil			1
92971.45	DUP-19	06/14/2018	Soil			1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/21/2018	2	Normal	--

92971.27	SSI-6-N/10-S-6"	06/14/2018	Soil			1
92971.31	SSI-6-N/10-S-60"	06/14/2018	Soil			1
92971.36	SSI-7-E-18"	06/14/2018	Soil			1
92971.37	SSI-7-E-30"	06/14/2018	Soil			1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg

Continued

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91764**	**Project ID: LASD1-32-7** **Date Received 06/14/2018** **Date Reported 06/22/2018**

Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
92971	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C2

Our Lab I.D.			Method Blank	92971.01	92971.02	92971.03	92971.06
Client Sample I.D.				SSI-46-6"	SSI-46-18"	SSI-46-36"	SSI-45-6"
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	21.2	2.48	2.58	5.63

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ANALYTICAL RESULTS

Ordered By

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Attn: Mike Watson
Page: **3**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C2

Our Lab I.D.			92971.07	92971.08	92971.11	92971.12	92971.13
Client Sample I.D.			SSI-45-18"	SSI-45-36"	SSI-44-6"	SSI-44-18"	SSI-44-36"
Date Sampled			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	7.05	2.67	6.96	3.43	2.39

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ANALYTICAL RESULTS

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Attn: Mike Watson
Page: **4**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C2

Our Lab I.D.			92971.16				
Client Sample I.D.			SSI-43-6"				
Date Sampled			06/14/2018				
Date Prepared			06/19/2018				
Preparation Method			3050B				
Date Analyzed			06/20/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.07				

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ANALYTICAL RESULTS

Ordered By

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **5**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C3

Our Lab I.D.			Method Blank	92971.17	92971.18	92971.21	92971.22
Client Sample I.D.				SSI-43-18"	SSI-43-36"	SSI-42-6"	DUP17
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	6.95	15.0	18.6	18.3

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David Starr Jordan SHS
2265 E. 103rd St.
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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C3

Our Lab I.D.			92971.23	92971.24			
Client Sample I.D.			SSI-42-18"	SSI-42-36"			
Date Sampled			06/14/2018	06/14/2018			
Date Prepared			06/19/2018	06/19/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/20/2018	06/20/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	3.55	2.16			

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C3

Our Lab I.D.			92971.27				
Client Sample I.D.			SSI-6-N/10-S -6"				
Date Sampled			06/14/2018				
Date Prepared			06/19/2018				
Preparation Method			3050B				
Date Analyzed			06/20/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	12.3				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C3

Our Lab I.D.			92971.28	92971.29	92971.30		
Client Sample I.D.			SSI-6-N/10-S -18"	SSI-6-N/10-S -36"	SSI-6-N/10-S -40"		
Date Sampled			06/14/2018	06/14/2018	06/14/2018		
Date Prepared			06/19/2018	06/19/2018	06/19/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/20/2018	06/20/2018	06/20/2018		
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	3.83	4.04	6.03		

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C4

Our Lab I.D.			Method Blank	92971.31	92971.32	92971.33	92971.34
Client Sample I.D.				SSI-6-N/10-S-60"	SSI-12-S/13-S-18"	SSI-12-S/13-S-36"	SSI-12-S/13-S-48"
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	1.77	15.7	2.97	1.26

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C4

Our Lab I.D.			92971.36	92971.37	92971.39	92971.40	92971.42
Client Sample I.D.			SSI-7-E-18"	SSI-7-E-30"	SSI-6-W-18"	SSI-6-W-30"	SSI-6-30"
Date Sampled			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	7.80	4.14	9.01	2.99	3.28

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C4

Our Lab I.D.			92971.43				
Client Sample I.D.			DUP18				
Date Sampled			06/14/2018				
Date Prepared			06/19/2018				
Preparation Method			3050B				
Date Analyzed			06/20/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.38				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C2

Our Lab I.D.			Method Blank	92971.01	92971.02	92971.03	92971.06
Client Sample I.D.				SSI-46-6"	SSI-46-18"	SSI-46-36"	SSI-45-6"
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	0.25	0.50	ND	19.7	5.18	3.01	26.4

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C2

Our Lab I.D.			92971.07				
Client Sample I.D.			SSI-45-18"				
Date Sampled			06/14/2018				
Date Prepared			06/19/2018				
Preparation Method			3050B				
Date Analyzed			06/20/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Lead	25	50	173				

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C2

Our Lab I.D.			92971.08	92971.11	92971.12	92971.13	92971.16
Client Sample I.D.			SSI-45-36"	SSI-44-6"	SSI-44-18"	SSI-44-36"	SSI-43-6"
Date Sampled			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	0.25	0.50	4.04	22.4	21.9	3.18	10.3

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C3

Our Lab I.D.			Method Blank	92971.17	92971.18	92971.21	92971.22
Client Sample I.D.				SSI-43-18"	SSI-43-36"	SSI-42-6"	DUP17
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	0.25	0.50	ND	8.85	3.15	70.3	73.9

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C3

Our Lab I.D.			92971.23	92971.24	92971.28	92971.29	92971.30
Client Sample I.D.			SSI-42-18"	SSI-42-36"	SSI-6-N/10-S-18"	SSI-6-N/10-S-36"	SSI-6-N/10-S-40"
Date Sampled			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	0.25	0.50	7.49	3.63	5.89	5.68	7.05

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C4

Our Lab I.D.			Method Blank	92971.32	92971.33	92971.34	92971.39
Client Sample I.D.				SSI-12-S/13-S-18"	SSI-12-S/13-S-36"	SSI-12-S/13-S-48"	SSI-6-W-18"
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	0.25	0.50	ND	13.8	4.75	2.29	12.0

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C4

Our Lab I.D.			92971.40	92971.42	92971.43		
Client Sample I.D.			SSI-6-W-30"	SSI-6-30"	DUP18		
Date Sampled			06/14/2018	06/14/2018	06/14/2018		
Date Prepared			06/19/2018	06/19/2018	06/19/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			06/20/2018	06/20/2018	06/20/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	0.25	0.50	5.69	2.11	20.3		

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C2; LCS: Clean Sand; LCS Prepared: 06/19/2018; LCS Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.992**	**99.2**	**1.00**	**1.01**	**101**	**1.8**	**80-120**	**<15**	

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C3; Dup or Spiked Sample: 92971.17; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**6.95**	**1.00**	**13.8 #**	**687**	**1.00**	**14.0 #**	**702**	**2.2**	**80-120**	**<15**

QC Batch No: 0619181C3; Dup or Spiked Sample: 92971.17; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.940**	**94.0**	**1.00**	**0.974**	**97.4**	**3.6**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson
Page: **21**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C4; Dup or Spiked Sample: 92971.31; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**1.77**	**1.00**	**2.61**	**84.0**	**1.00**	**2.68**	**91.0**	**8.0**	**80-120**	**<15**

QC Batch No: 0619181C4; Dup or Spiked Sample: 92971.31; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.950**	**95.0**	**1.00**	**1.01**	**101**	**6.1**	**80-120**	**<15**	

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **22**

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C2; LCS: Clean Sand; LCS Prepared: 06/19/2018; LCS Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.969**	**96.9**	**1.00**	**0.975**	**97.5**	**<1**	**75-125**	**<15**	

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Page: **23**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C3; LCS: Clean Sand; LCS Prepared: 06/19/2018; LCS Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.954**	**95.4**	**1.00**	**0.980**	**98.0**	**2.7**	**75-125**	**<15**	

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **24**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C4; Dup or Spiked Sample: 92971.31; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**2.59**	**1.00**	**3.34**	**75.0**	**1.00**	**3.31 #**	**72.0**	**4.1**	**75-125**	**<15**

QC Batch No: 0619181C4; Dup or Spiked Sample: 92971.31; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.981**	**98.1**	**1.00**	**0.985**	**98.5**	**<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

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Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**9**
Date Received	**06/14/2018**
Date Reported	**06/29/2018**

Job Number	Order Date	Client
92971	06/14/2018	PLACE

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108778

AETL JOB No. 92971

Page 1 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B ONTARIO, CA 91764
PHONE: 909 989 4949
FAX:
PROJECT NAME: David Starr Jordan Senior HS SI
PROJECT #: LA501-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-46-6"	92971.01	6/14/18	0739	Soil	glass jar	ice
2	SSI-46-18"	92971.02		0741			
3	SSI-46-36"	92971.03		0742			
4	SSI-46-48"	92971.04		0744			
5	SSI-46-60"	92971.05		0745			
6	SSI-45-6"	92971.06		0750			
7	SSI-45-18"	92971.07		0753			
8	SSI-45-36"	92971.08		0755			
9	SSI-45-48"	92971.09		0757			
10	SSI-45-60"	92971.10		0758			
11	SSI-44-6"	92971.11		0802			
12	SSI-44-18"	92971.12		0804			
13	SSI-44-36"	92971.13		0806			
14	SSI-44-48"	92971.14		0808			
15	SSI-44-60"	92971.15		0809			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead	STLC Lead	TCLP Lead	HOLD
X	X			
X	X			
X	X			
				X
				X
X	X			
X	X	*	*	
X	X			
				X
X	X			
X	X			
X	X			
				X

TEST INSTRUCTIONS & COMMENTS

see page 5 for RUSH samples & lab 5035 extraction for one sample

*(1) Added 6/22

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: CARLTON PORTILLO
Date: 6/14/18 Time: 1430	Date: Time:	Date: 6/14/18 Time: 1550
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CARLTON PORTILLO	Printed Name:	Printed Name: Ati-
Date: 6/14/18 Time: 1430	Date: Time:	Date: 06/14/18 Time: 1550

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

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CHAIN OF CUSTODY RECORD

108779

AETL JOB No. 92971

Page 2 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LA501-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-43-6"	92971.16	6/14/18	0817	Soil	glass jar	ice
2	SSI-43-18"	92971.17		0819			
3	SSI-43-36"	92971.18		0821			
4	SSI-43-48"	92971.19		0823			
5	SSI-43-60"	92971.20		0825			
6	SSI-42-6"	92971.21		0831			
7	DUP 17	92971.22					
8	SSI-42-18"	92971.23		0833			
9	SSI-42-36"	92971.24		0835			
10	SSI-42-48"	92971.25		0838			
11	SSI-42-60"	92971.26		0840			
12	SSI-6-N/10-S-6"	92971.27		0901			
13	SSI-6-N/10-S-18"	92971.28		0903			
14	SSI-6-N/10-S-36"	92971.29		0905			
15	SSI-6-N/10-S-40"	92971.30		0907			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead	STLC Lead	TCLP Lead	HOLD
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			

TEST INSTRUCTIONS & COMMENTS

*(2) Added 6/22

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	RELINQUISHED BY: Signature:	RELINQUISHED BY: Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. MACMILLAN
	Date: 6/14/18 Time: 1430	Date: Time:	Date: 6/14/18 Time: 1550
RECEIVED BY:	Signature:	RECEIVED BY: Signature:	RECEIVED BY LABORATORY: AETL
	Printed Name: CHARLYNN MACMILLAN	Printed Name:	Printed Name: Anti-
	Date: 6/14/18 Time: 1430	Date: Time:	Date: 06/14/18 Time: 1550

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

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CHAIN OF CUSTODY RECORD

108780

AETL JOB No. 92971

COMPANY: PlaceWorks
PROJECT MANAGER: Mike Watson
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, Suite B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead								HOLD	TEST INSTRUCTIONS & COMMENTS *(0)
1	SSI-6-N/10-S-60"		6/14/18	0910	Soil	glass jar	ice	X										92971.31
2	SSI-12-S/13-S-18"			0920				X	X									92971.32
3	SSI-12-S/13-S-36"			0922				X	X									92971.33
4	SSI-12-S/13-S-48"			0924				X	X									92971.34
5	SSI-12-S/13-S-60"			0925													X	92971.35
6	SSI-7-E-18"			0934				X										92971.36
7	SSI-7-E-30"			0937				X										92971.37
8	SSI-7-E-42"			0940													X	92971.38
9	SSI-6-W-18"			0945				X	X									92971.39
10	SSI-6-W-30"			0947				X	X									92971.40
11	SSI-6-W-42"			0949													X	92971.41
12	SSI-6-30"			0959				X	X									92971.42
13	DUP18							X	X									92971.43
14	SSI-6-42"			1001													X	92971.44
15	DUP19																X	92971.45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME
[X] NORMAL [ ] RUSH [ ] SAME DAY [ ] NEXT DAY [ ] 2 DAYS [ ] 3 DAYS

DATA DELIVERABLE REQUIRED
[ ] HARD COPY [X] PDF [ ] GEOTRACKER (GLOBAL ID) ______ [ ] OTHER (PLEASE SPECIFY) ______

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PADILLA
Date: 6/14/18 Time: 1430	Date: Time:	Date: 6/14/18 Time: 1550

RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature: [signature]	Signature:	Signature: [signature]
Printed Name: CAITLIN PADILLA	Printed Name:	Printed Name: An
Date: 6/14/18 Time: 1430	Date: Time:	Date: 06/14/18 Time: 1550

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, June 22, 2018 3:45 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-14-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-43-48" for arsenic by EPA Method 6020.

Please run SSI-42-6" and SSI-45-18" for lead STLC and TCLP.

Use standard TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, June 22, 2018 3:24 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-14-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan High School, Los Angeles, CA" .

AETL Job No: 92971

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/14/2018
Date Reported 06/22/2018

Job Number	Order Date	Client
92971	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 45 samples with the following specification on 06/14/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92971.01	SSI-46-6"	06/14/2018	Soil	1
92971.02	SSI-46-18"	06/14/2018	Soil	1
92971.03	SSI-46-36"	06/14/2018	Soil	1
92971.06	SSI-45-6"	06/14/2018	Soil	1
92971.08	SSI-45-36"	06/14/2018	Soil	1
92971.11	SSI-44-6"	06/14/2018	Soil	1
92971.12	SSI-44-18"	06/14/2018	Soil	1
92971.13	SSI-44-36"	06/14/2018	Soil	1
92971.16	SSI-43-6"	06/14/2018	Soil	1
92971.17	SSI-43-18"	06/14/2018	Soil	1
92971.18	SSI-43-36"	06/14/2018	Soil	1
92971.22	DUP17	06/14/2018	Soil	1
92971.23	SSI-42-18"	06/14/2018	Soil	1
92971.24	SSI-42-36"	06/14/2018	Soil	1
92971.28	SSI-6-N/10-S-18"	06/14/2018	Soil	1
92971.29	SSI-6-N/10-S-36"	06/14/2018	Soil	1
92971.30	SSI-6-N/10-S-40"	06/14/2018	Soil	1
92971.32	SSI-12-S/13-S-18"	06/14/2018	Soil	1
92971.33	SSI-12-S/13-S-36"	06/14/2018	Soil	1
92971.34	SSI-12-S/13-S-48"	06/14/2018	Soil	1
92971.39	SSI-6-W-18"	06/14/2018	Soil	1
92971.40	SSI-6-W-30"	06/14/2018	Soil	1
92971.42	SSI-6-30"	06/14/2018	Soil	1
92971.43	DUP18	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg

Continued

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Ordered By

Placeworks
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Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/14/2018
Date Reported 06/22/2018

Job Number	Order Date	Client
92971	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

92971.43	DUP18	06/14/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	(6020) ^ PB	06/21/2018	2	Normal	mg/Kg	
92971.04	SSI-46-48"	06/14/2018	Soil			1
92971.05	SSI-46-60"	06/14/2018	Soil			1
92971.09	SSI-45-48"	06/14/2018	Soil			1
92971.10	SSI-45-60"	06/14/2018	Soil			1
92971.14	SSI-44-48"	06/14/2018	Soil			1
92971.15	SSI-44-60"	06/14/2018	Soil			1
92971.20	SSI-43-60"	06/14/2018	Soil			1
92971.25	SSI-42-48"	06/14/2018	Soil			1
92971.26	SSI-42-60"	06/14/2018	Soil			1
92971.35	SSI-12-S/13-S-60"	06/14/2018	Soil			1
92971.38	SSI-7-E-42"	06/14/2018	Soil			1
92971.41	SSI-6-W-42"	06/14/2018	Soil			1
92971.44	SSI-6-42"	06/14/2018	Soil			1
92971.45	DUP-19	06/14/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	ARCHIVE	06/21/2018	2	Normal	--	
92971.07	SSI-45-18"	06/14/2018	Soil			1
92971.21	SSI-42-6"	06/14/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	(6010/7000TCLP) ^ PB	06/21/2018	2	Normal	mg/L	
	(6010B-STLC) ^ STLC-PB	06/21/2018	2	Normal	mg/L	
	(6020) ^ AS	06/21/2018	2	Normal	mg/Kg	
	(6020) ^ PB	06/21/2018	2	Normal	mg/Kg	
92971.19	SSI-43-48"	06/14/2018	Soil			1
92971.27	SSI-6-N/10-S-6"	06/14/2018	Soil			1
92971.31	SSI-6-N/10-S-60"	06/14/2018	Soil			1

Continued

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91764**	**Project ID: LASD1-32-7** **Date Received 06/14/2018** **Date Reported 06/22/2018**
Telephone: (909)989-4449 **Attention: Mike Watson**	

Job Number	Order Date	Client
92971	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

92971.36	SSI-7-E-18"	06/14/2018	Soil	1
92971.37	SSI-7-E-30"	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Placeworks
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Suite B
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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C1

Our Lab I.D.			Method Blank	92971.19			
Client Sample I.D.				SSI-43-48"			
Date Sampled				06/14/2018			
Date Prepared			06/25/2018	06/25/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/26/2018	06/26/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	9.47			

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ANALYTICAL RESULTS

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Attn: Mike Watson
Page: **3**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/26/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/28/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3

Our Lab I.D.			92971.07	92971.21			
Client Sample I.D.			SSI-45-18"	SSI-42-6"			
Date Sampled			06/14/2018	06/14/2018			
Date Prepared			06/26/2018	06/26/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			06/28/2018	06/28/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead (STLC)	0.50	1.00	6.54	2.55			

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/25/2018				
Preparation Method			1311				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6

Our Lab I.D.			92971.07	92971.21			
Client Sample I.D.			SSI-45-18"	SSI-42-6"			
Date Sampled			06/14/2018	06/14/2018			
Date Prepared			06/25/2018	06/25/2018			
Preparation Method			1311	1311			
Date Analyzed			06/26/2018	06/26/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead (TCLP)	0.50	1.00	ND	ND			

Comment(s):
92971.07: Analyzed under dilution due to matrix interference 92971.21: Analyzed under dilution due to matrix interference

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS
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Los Angeles, CA 90002

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0625182C6; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; 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	
Lead (TCLP)	**10.0**	**9.22**	**92.2**	**10.0**	**9.15**	**91.5**	**<1**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Page: **8**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**19.2**	**19.5**	**1.6**	**<20**						

QC Batch No: 0626182C3; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; 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	
Lead (STLC)	**10.0**	**8.63**	**86.3**	**10.0**	**8.69**	**86.9**	**<1**	**80-120**	**<15**	

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David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92971	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C1; Dup or Spiked Sample: 92916.02; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**6.22**	**1.00**	**8.62 #**	**240**	**1.00**	**8.53 #**	**231**	**3.8**	**80-120**	**<15**

QC Batch No: 0625181C1; Dup or Spiked Sample: 92916.02; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.996**	**99.6**	**1.00**	**0.987**	**98.7**	**<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

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Number of Pages	**18**
Date Received	**06/14/2018**
Date Reported	**06/21/2018**

Job Number	Order Date	Client
92972	06/14/2018	PLACE

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 19 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

108781

AETL JOB No. 92972

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-6-E-18'	92972.01	6/14/18	1009	Soil	glass jar	ice	X	X		
2	SSI-6-E-30'	92972.02	6/14/18	1010	Soil	glass jar	ice	X	X		
3	SSI-6-E-42"	92972.03	6/14/18	1013	Soil	glass jar	ice			X	
4	SSI-6-S-18"	92972.04	6/14/18	1022	Soil	glass jar	ice	X	X		
5	SSI-6-S-30'	92972.05	6/14/18	1024	Soil	glass jar	ice	X	X		
6	SSI-6-S-42"	92972.06	6/14/18	1025	Soil	glass jar	ice			X	
7	SSI-8-30'	92972.07	6/14/18	1037	Soil	glass jar	ice	X			
8	DUP20	92972.08	6/14/18		Soil	glass jar	ice	X			
9	SSI-8-42"	92972.09	6/14/18	1040	Soil	glass jar	ice			X	time 1040
10	DUP21	92972.10	6/14/18	1046	Soil	glass jar	ice			X	time blank
11	SSI-8-S-18"	92972.11	6/14/18	1048	Soil	glass jar	ice	X			time 1046
12	SSI-8-S-30'	92972.12	6/14/18	~~1050~~	Soil	glass jar	ice	X			time 1048
13	SSI-8-S-42"	92972.13	6/14/18	1050	Soil	glass jar	ice			X	
14	SSI-3-N-18"	92972.14	6/14/18	1058	Soil	glass jar	ice	X			
15	SSI-3-N-30"	92972.15	6/14/18	1100	Soil	glass jar	ice	X			

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY	(Sampler) Signature: [signature] Printed Name: MIKE WATSON Date: 6/14/18 Time: 1430	Signature: Printed Name: Date: Time:	Signature: [signature] Printed Name: C. Trevillao Date: 6/14/18 Time: 1550
RECEIVED BY	Signature: [signature] Printed Name: Charleton Trevillao Date: 6/14/18 Time: 1430	Signature: Printed Name: Date: Time:	(Laboratory) AETL Signature: Printed Name: [signature] Date: 06/14/18 Time: 1550

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

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CHAIN OF CUSTODY RECORD

108782

AETL JOB No. 92972

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead	8015M(5035) TPH gas	8015M TPH-D	8015M TPH extended range					HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-3-N-42"	92972.16	6/14/18	1102	soil	glass jar	ice										X	Use 72hr TAT for TPH analysis only
2	SSI-3-30"	92972.17	↓	1112	↓	↓	↓	X										
3	Dup22	92972.18						X										
4	SSI-3-42"	92972.19		1115													X	
5	Dup23	92972.20															X	
6	SSI-3-5-18"	92972.21		1124				X										
7	SSI-3-5-30"	92972.22		1126				X										
8	SSI-3-5-42"	92972.23		1128		↓	↓										X	
9	SSI-36-10'	92972.24		1209		acetate tube + 4 VOAs	Ice/5035			X	X	X						
10	SSI-36-15'	92972.25		1211						X	X	X						
11	SSI-36-20'	92972.26		1213						X	X	X						
12	SSI-36-25'	92972.27		1217		↓	↓			X	X	X						
13	SSI-36-30'	92972.28		1224		acetate sleeve	ice			X	X	X						please use 5035 at lab
14	SSI-36-35'	92972.29		1228													X	
15	SSI-36-40'	92972.30	↓	1233	↓	↓	↓										X	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	31	PROPERLY COOLED	(Y) / N / NA
CUSTODY SEALS	Y / (N) / NA	SAMPLES INTACT	(Y) / N / NA
RECEIVED IN GOOD COND	(Y) / N	SAMPLES ACCEPTED	(Y) / N

TURN AROUND TIME

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

* see Rush on this page

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY	RELINQUISHED BY SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 6/14/18 Time: 1430	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: [illegible] Date: 6/14/18 Time: 1550
RECEIVED BY	RECEIVED BY: Signature: [signature] Printed Name: [illegible] Date: 6/14/18 Time: 1430	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: [signature] Printed Name: [signature] Date: 06/14/18 Time: 1550

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

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COOLER RECEIPT FORM

Client Name: PlaceWork
Project Name:
AETL Job Number: 92971, 92972
Date Received: 06/14/18 Received by: Austin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (2) ☐ Other (Specify): c
Inside temperature of shipping container No 1: 3.3, No 2: 3.2, No 3: ____
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☒ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify): 5x5035kits 7x acetate tube
How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, ✓ MeOH
_ Other (Specify): $NaHSO_4H_2O$

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/14/2018
Date Reported 06/21/2018

Job Number	Order Date	Client
92972	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 06/14/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92972.01	SSI-6-E-18"	06/14/2018	Soil	1
92972.02	SSI-6-E-30"	06/14/2018	Soil	1
92972.04	SSI-6-S-18"	06/14/2018	Soil	1
92972.05	SSI-6-S-30"	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg
(6020) ^ PB	06/21/2018	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92972.03	SSI-6-E-42"	06/14/2018	Soil	1
92972.06	SSI-6-S-42"	06/14/2018	Soil	1
92972.09	SSI-8-42"	06/14/2018	Soil	1
92972.10	DUP21	06/14/2018	Soil	1
92972.13	SSI-8-S-42"	06/14/2018	Soil	1
92972.16	SSI-3-N-42"	06/14/2018	Soil	1
92972.19	SSI-3-42"	06/14/2018	Soil	1
92972.20	DUP23	06/14/2018	Soil	1
92972.23	SSI-3-S-42"	06/14/2018	Soil	1
92972.29	SSI-36-35"	06/14/2018	Soil	1
92972.30	SSI-36-40"	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/21/2018	2	Normal	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92972.07	SSI-8-30"	06/14/2018	Soil	1
92972.08	DUP20	06/14/2018	Soil	1
92972.11	SSI-8-S-18"	06/14/2018	Soil	1
92972.12	SSI-8-S-30"	06/14/2018	Soil	1
92972.14	SSI-3-N-18"	06/14/2018	Soil	1

Continued

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Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/14/2018
Date Reported 06/21/2018

Job Number	Order Date	Client
92972	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

92972.15	SSI-3-N-30"	06/14/2018	Soil			1
92972.17	SSI-3-30"	06/14/2018	Soil			1
92972.18	DUP22	06/14/2018	Soil			1
92972.21	SSI-3-S-18"	06/14/2018	Soil			1
92972.22	SSI-3-S-30"	06/14/2018	Soil			1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg

92972.24	SSI-36-10'	06/14/2018	Soil			1
92972.25	SSI-36-15'	06/14/2018	Soil			1
92972.26	SSI-36-20'	06/14/2018	Soil			1
92972.27	SSI-36-25'	06/14/2018	Soil			1
92972.28	SSI-36-30'	06/14/2018	Soil			1

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015D) ^ C13-C40	06/18/2018	4	Rush	mg/Kg
(M8015G)	06/18/2018	4	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

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061818OB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/18/2018				
Preparation Method			5030				
Date Analyzed			06/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Bromofluorobenzene	75-125		106				

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061818OB1

Our Lab I.D.			92972.24	92972.25			
Client Sample I.D.			SSI-36-10'	SSI-36-15'			
Date Sampled			06/14/2018	06/14/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			5030	5030			
Date Analyzed			06/18/2018	06/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			100	100			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Gasoline and Light HC. (C4-C12)	10	100	388	464			
Our Lab I.D.			92972.24	92972.25			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	75-125		101	101			

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David Starr Jordan SHS
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Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061518OB1

Our Lab I.D.			Method Blank	92972.26	92972.27	92972.28	
Client Sample I.D.				SSI-36-20'	SSI-36-25'	SSI-36-30'	
Date Sampled				06/14/2018	06/14/2018	06/14/2018	
Date Prepared			06/15/2018	06/14/2018	06/14/2018	06/14/2018	
Preparation Method			5030	5035A	5035A	5035A	
Date Analyzed			06/15/2018	06/15/2018	06/16/2018	06/16/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	
Our Lab I.D.			Method Blank	92972.26	92972.27	92972.28	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		103	108	109	105	

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David Starr Jordan SHS
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Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061518PB1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/15/2018				
Preparation Method			3550B				
Date Analyzed			06/15/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	1.0	5.0	ND				
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND				
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND				
Our Lab I.D.			Method Blank				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	75-125		98.9				

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David Starr Jordan SHS
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Los Angeles, CA 90002

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061518PB1

Our Lab I.D.			**92972.24**				
Client Sample I.D.			SSI-36-10'				
Date Sampled			**06/14/2018**				
Date Prepared			**06/15/2018**				
Preparation Method			**3550B**				
Date Analyzed			**06/18/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			2				
Analytes	**MDL**	**PQL**	**Results**				
TPH as Diesel (C13-C22)	**2.0**	**10**	**6,220**				
TPH as Heavy Hydrocarbons (C23-C40)	**2.0**	**10**	**289**				
TPH Total as Diesel and Heavy HC.C13-C40	**2.0**	**10**	**6,510**				
Our Lab I.D.			**92972.24**				
Surrogates	**%Rec.Limit**		**% Rec.**				
Chlorobenzene	**75-125**		**90.8**				

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David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061518PB1

Our Lab I.D.			Method Blank	92972.25	92972.26	92972.27	92972.28
Client Sample I.D.				SSI-36-15'	SSI-36-20'	SSI-36-25'	SSI-36-30'
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/15/2018	06/15/2018	06/15/2018	06/15/2018	06/15/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			06/15/2018	06/15/2018	06/15/2018	06/15/2018	06/15/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	1,580	1,640	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	41.1	37.1	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	1,620	1,680	ND	ND
Our Lab I.D.			Method Blank	92972.25	92972.26	92972.27	92972.28
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		98.9	103	101	102	99.9

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C5

Our Lab I.D.			Method Blank	92972.01	92972.02	92972.04	92972.05
Client Sample I.D.				SSI-6-E-18"	SSI-6-E-30"	SSI-6-S-18"	SSI-6-S-30"
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	0.25	0.50	ND	75.5	34.2	7.42	4.18

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C5

Our Lab I.D.			Method Blank	92972.01	92972.02	92972.04	92972.05
Client Sample I.D.				SSI-6-E-18"	SSI-6-E-30"	SSI-6-S-18"	SSI-6-S-30"
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	27.8	25.4	13.1	4.26

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C5

Our Lab I.D.			92972.07	92972.08	92972.11	92972.12	92972.14
Client Sample I.D.			SSI-8-30"	DUP20	SSI-8-S-18"	SSI-8-S-30"	SSI-3-N-18"
Date Sampled			06/14/2018	06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	4.76	4.11	5.94	3.07	11.3

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C5

Our Lab I.D.			92972.15				
Client Sample I.D.			SSI-3-N-30"				
Date Sampled			06/14/2018				
Date Prepared			06/19/2018				
Preparation Method			3050B				
Date Analyzed			06/20/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	30.7				

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ANALYTICAL RESULTS

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **12**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C6

Our Lab I.D.			Method Blank	92972.17	92972.18	92972.21	92972.22
Client Sample I.D.				SSI-3-30"	DUP22	SSI-3-S-18"	SSI-3-S-30"
Date Sampled				06/14/2018	06/14/2018	06/14/2018	06/14/2018
Date Prepared			06/19/2018	06/19/2018	06/19/2018	06/19/2018	06/19/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			06/20/2018	06/20/2018	06/20/2018	06/20/2018	06/20/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	ND	3.61	3.62	4.15	2.62

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C5; Dup or Spiked Sample: 92972.01; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**27.8**	**1.00**	**29.1 #**	**130**	**1.00**	**29.2 #**	**140**	**7.4**	**80-120**	**<15**

QC Batch No: 0619181C5; Dup or Spiked Sample: 92972.01; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.971**	**97.1**	**1.00**	**1.01**	**101**	**3.9**	**80-120**	**<15**	

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0619181C6; Dup or Spiked Sample: 92972.17; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.61**	**1.00**	**4.50**	**89.0**	**1.00**	**4.69**	**108**	**19.3**	**80-120**	**<15**

QC Batch No: 0619181C6; Dup or Spiked Sample: 92972.17; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.01**	**101**	**1.00**	**1.03**	**103**	**2.0**	**80-120**	**<15**	

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Site

David Starr Jordan SHS
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Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0619181C5; LCS: Clean Sand; LCS Prepared: 06/19/2018; LCS Analyzed: 06/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.997**	**99.7**	**1.00**	**1.00**	**100**	**<1**	**75-125**	**<15**	

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David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061518PB1; Dup or Spiked Sample: 92973.03; LCS: Clean Sand; QC Prepared: 06/15/2018; QC Analyzed: 06/15/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	466	93.2	500	475	95.0	1.9	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	95.4	95.4	100	95.8	95.8	<1	75-125	<20

QC Batch No: 061518PB1; Dup or Spiked Sample: 92973.03; LCS: Clean Sand; QC Prepared: 06/15/2018; QC Analyzed: 06/15/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	510	102	500	496	99.2	2.8	75-125	<20	
Surrogates										
Chlorobenzene	100	100	100	100	96.6	96.6	3.5	75-125	<20	

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David Starr Jordan SHS
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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061518OB1; Dup or Spiked Sample: 92972.26AGA; LCS: Clean Sand; QC Prepared: 06/15/2018;MS Analyzed: 06/16/2018; LCS Analyzed: 06/15/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.813	81.3	1.00	0.808	80.8	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0505	101	0.0500	0.0510	102	<1	75-125	<20

QC Batch No: 061518OB1; Dup or Spiked Sample: 92972.26AGA; LCS: Clean Sand; QC Prepared: 06/15/2018;MS Analyzed: 06/16/2018; LCS Analyzed: 06/15/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.853	85.3	1.00	0.909	90.9	6.4	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0520	104	0.0500	0.0525	105	<1	75-125	<20	

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061818OB1; Dup or Spiked Sample: 93000.01AGA; LCS: Clean Sand; QC Prepared: 06/18/2018;MS Analyzed: 06/19/2018; LCS Analyzed: 06/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.00	1.00	0.955	95.5	1.00	0.881	88.1	8.1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0510	102	0.0500	0.0505	101	<1	75-125	<20

QC Batch No: 061818OB1; Dup or Spiked Sample: 93000.01AGA; LCS: Clean Sand; QC Prepared: 06/18/2018;MS Analyzed: 06/19/2018; LCS Analyzed: 06/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.868	86.8	1.00	0.892	89.2	2.7	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0500	100	0.0500	0.0492	98.4	1.6	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**10**
Date Received	**06/14/2018**
Date Reported	**06/29/2018**

Job Number	Order Date	Client
92972	06/14/2018	PLACE

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

108781

AETL JOB No. 92972

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDL-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E 103rd St, LA, CA 90002
PO #:

ANALYSIS REQUESTED / TEST INSTRUCTIONS & COMMENTS: *(2) Added 6/22

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 Arsenic	6020 Lead		STLC LEAD	TCLP LEAD						HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-6-E-18"	92972.01	6/14/18	1009	Soil	glass jar	ice	X	X		*	*							
2	SSI-6-E-30"	92972.02	↓	1010	↓	↓	↓	X	X										
3	SSI-6-E-42"	92972.03		1013				*										X	
4	SSI-6-S-18"	92972.04		1022				X	X										
5	SSI-6-S-30"	92972.05		1024				X	X										
6	SSI-6-S-42"	92972.06		1025														X	
7	SSI-8-30"	92972.07		1037				X											
8	DUP20	92972.08						X											
9	SSI-8-42"	92972.09		1040														X	time 1040
10	DUP21	92972.10		1046														X	time blank
11	SSI-8-S-18"	92972.11		1048				X											time 1046
12	SSI-8-S-30"	92972.12		~~1050~~				X											time 1048
13	SSI-8-S-42"	92972.13		1050														X	
14	SSI-3-N-18"	92972.14		1058				X											
15	SSI-3-N-30"	92972.15	↓	1100	↓	↓	↓	X											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 6/14/18 Time: 1430	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: C. PREVILLAO Date: 6/14/18 Time: 1550
RECEIVED BY	RECEIVED BY: Signature: [signature] Printed Name: CHARLTON PREVILLAO Date: 6/14/18 Time: 1430	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: Printed Name: [signature] Date: 06/14/18 Time: 1550

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CHAIN OF CUSTODY RECORD

108782

AETL JOB No. 92972

Page 5 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD STE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD16-327
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-3 N-42"	92972.16	6/14/18	1102	soil	glass jar	ice
2	SSI-3-30"	92972.17		1112			
3	Dup22	92972.18					
4	SSI-3-42"	92972.19		1115			
5	Dup23	92972.20					
6	SSI-3-5-18"	92972.21		1124			
7	SSI-3-5-30"	92972.22		1126			
8	SSI-3-5-42"	92972.23		1128			
9	SSI-36-10'	92972.24		1209		acetate tube for 5035	
10	SSI-36-15'	92972.25		1211			
11	SSI-36-20'	92972.26		1213			
12	SSI-36-25'	92972.27		1217			
13	SSI-36-30'	92972.28		1224		acetate; lab ice	
14	SSI-36-35'	92972.29		1228			
15	SSI-36-40'	92972.30		1233			

ANALYSIS REQUESTED

6020 Arsenic	6020 Lead	8015M(5035)TPH GAS	8015M TPH-D	8015M TPH extended range	HOLD
*					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

TEST INSTRUCTIONS & COMMENTS

Use 72hr TAT for TPH analysis only
*(1) Added 6/22
please use 5035 at lab

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	31	PROPERLY COOLED (Y) / N / NA	
CUSTODY SEALS Y (N) / NA		SAMPLES INTACT (Y) / N / NA	
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED (Y) / N	

TURN AROUND TIME

[X] NORMAL [ ] RUSH
[ ] SAME DAY
[ ] NEXT DAY
[ ] 2 DAYS
[ ] 3 DAYS
* see Rush on this

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. GRIFFIN
Date: 6/14/18 Time: 1430	Date: Time:	Date: 6/14/18 Time: 1550
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: C. GRIFFIN	Printed Name:	Printed Name:
Date: 6/14/18 Time: 1430	Date: Time:	Date: 06/14/18 Time: 1550

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, June 22, 2018 2:31 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-14-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-3-N-42" and SSI-6-E-42" for arsenic by EPA Method 6020.

Please run SSI-6-E-18" for lead STLC and TCLP.

Use standard TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, June 21, 2018 5:28 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan High School, Los Angeles, CA" for samples Collected on 06-14-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan High School, Los Angeles, CA" .

AETL Job No: 92972 (Complete report)

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

American Environmental Testing Laboratory Inc.
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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32-7
Date Received 06/14/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92972	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 06/14/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92972.01	SSI-6-E-18"	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	06/21/2018	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	06/21/2018	2	Normal	mg/L
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg
(6020) ^ PB	06/21/2018	2	Normal	mg/Kg

92972.02	SSI-6-E-30"	06/14/2018	Soil	1
92972.04	SSI-6-S-18"	06/14/2018	Soil	1
92972.05	SSI-6-S-30"	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg
(6020) ^ PB	06/21/2018	2	Normal	mg/Kg

92972.03	SSI-6-E-42"	06/14/2018	Soil	1
92972.07	SSI-8-30"	06/14/2018	Soil	1
92972.08	DUP20	06/14/2018	Soil	1
92972.11	SSI-8-S-18"	06/14/2018	Soil	1
92972.12	SSI-8-S-30"	06/14/2018	Soil	1
92972.14	SSI-3-N-18"	06/14/2018	Soil	1
92972.15	SSI-3-N-30"	06/14/2018	Soil	1
92972.16	SSI-3-N-42"	06/14/2018	Soil	1
92972.17	SSI-3-30"	06/14/2018	Soil	1
92972.18	DUP22	06/14/2018	Soil	1
92972.21	SSI-3-S-18"	06/14/2018	Soil	1
92972.22	SSI-3-S-30"	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	06/21/2018	2	Normal	mg/Kg

Continued

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Project ID: LASD1-32-7
Date Received 06/14/2018
Date Reported 06/29/2018

Job Number	Order Date	Client
92972	06/14/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92972.06	SSI-6-S-42"	06/14/2018	Soil	1
92972.09	SSI-8-42"	06/14/2018	Soil	1
92972.10	DUP21	06/14/2018	Soil	1
92972.13	SSI-8-S-42"	06/14/2018	Soil	1
92972.19	SSI-3-42"	06/14/2018	Soil	1
92972.20	DUP23	06/14/2018	Soil	1
92972.23	SSI-3-S-42"	06/14/2018	Soil	1
92972.29	SSI-36-35"	06/14/2018	Soil	1
92972.30	SSI-36-40"	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/21/2018	2	Normal	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
92972.24	SSI-36-10'	06/14/2018	Soil	1
92972.25	SSI-36-15'	06/14/2018	Soil	1
92972.26	SSI-36-20'	06/14/2018	Soil	1
92972.27	SSI-36-25'	06/14/2018	Soil	1
92972.28	SSI-36-30'	06/14/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(M8015D) ^ C13-C40	06/18/2018	4	Rush	mg/Kg
(M8015G)	06/18/2018	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 Director

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ANALYTICAL RESULTS

Ordered By

Placeworks
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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			Method Blank	**92972.03**			
Client Sample I.D.				SSI-6-E-42"			
Date Sampled				**06/14/2018**			
Date Prepared			**06/25/2018**	**06/25/2018**			
Preparation Method			**3050B**	**3050B**			
Date Analyzed			**06/26/2018**	**06/26/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	**0.05**	**0.10**	**ND**	**3.99**			

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Page: **3**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2

Our Lab I.D.			92972.16				
Client Sample I.D.			SSI-3-N-42"				
Date Sampled			06/14/2018				
Date Prepared			06/25/2018				
Preparation Method			3050B				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.58				

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/26/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/28/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3

Our Lab I.D.			92972.01				
Client Sample I.D.			SSI-6-E-18"				
Date Sampled			06/14/2018				
Date Prepared			06/26/2018				
Preparation Method			TITLE 22				
Date Analyzed			06/28/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	1.87				

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David Starr Jordan SHS
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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			06/25/2018				
Preparation Method			1311				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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Page: **7**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6

Our Lab I.D.			92972.01				
Client Sample I.D.			SSI-6-E-18"				
Date Sampled			06/14/2018				
Date Prepared			06/25/2018				
Preparation Method			1311				
Date Analyzed			06/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.50	1.00	ND				

Comment(s):
92972.01: Analyzed under dilution due to matrix interference

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QUALITY CONTROL RESULTS

Ordered By

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **8**

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0625182C6; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0625182C6; Dup or Spiked Sample: 92936.16; LCS: Clean Sand; LCS Prepared: 06/25/2018; LCS Analyzed: 06/26/2018; 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	
Lead (TCLP)	**10.0**	**9.22**	**92.2**	**10.0**	**9.15**	**91.5**	**<1**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0626182C3; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**19.2**	**19.5**	**1.6**	**<20**						

QC Batch No: 0626182C3; Dup or Spiked Sample: 92936.15; LCS: Clean Sand; LCS Prepared: 06/26/2018; LCS Analyzed: 06/28/2018; 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	
Lead (STLC)	**10.0**	**8.63**	**86.3**	**10.0**	**8.69**	**86.9**	**<1**	**80-120**	**<15**	

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Attn: Mike Watson
Page: **10**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32-7
Project Name: David Starr Jordan HS SSI

AETL Job Number	Submitted	Client
92972	06/14/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0625181C2; Dup or Spiked Sample: 92937.05; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**2.19**	**1.00**	**2.97**	**78.0**	**1.00**	**3.08**	**89.0**	**13.2**	**80-120**	**<15**

QC Batch No: 0625181C2; Dup or Spiked Sample: 92937.05; LCS: Clean Sand; QC Prepared: 06/25/2018; QC Analyzed: 06/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.930**	**93.0**	**1.00**	**0.950**	**95.2**	**2.3**	**80-120**	**<15**	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Attention: Mike Watson

Number of Pages	**30**
Date Received	**06/18/2018**
Date Reported	**06/26/2018**

Job Number	Order Date	Client
93005	06/18/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 1 discrete soil, 1 composite soil and 1 water samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

108732

AETL JOB No. 93005

Page 1 of 1

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2855 INLAND EMPIRE BL, SUITE B ONTARIO CA 91764
PHONE	909 9894449
FAX	
PROJECT NAME	David Starr Jordan Senior HS SSI
PROJECT #	LASD1-32.7
SITE NAME AND ADDRESS	David Starr Jordan SHS 2265 E. 103rd St, LA, CA 90002
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	WASTE 1	93005-01	6/12/18	0718	Soil	glass jar	ice
2	WASTE 2	93005.02	↓	1441		↓	
3	WASTE 3	93005.03	6/13/18	1505		↓	↓
4	WASTE 4	93005.04	6/18/18	0830	↓	glass jar, 4oz	ice/5035
5	WATER	93005.05	↓	0745	water	2 amber, 1 plastic, 500ml	ice/HCl/HNO3
6	Comp 1,2,3,4	93005.06					
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

	6010B/7471A (CAM-17 Metals)	8081 OCPs	8015M TPH-Diesel	8015M TPH-extractable range	8015M TPH-gas	8260 VOCs
1	C	C	C	C		
2	C	C	C	C		
3	C	C	C	C		
4	X	X	X	X	X	X
5	X	X	X	X	X	X
6	X	X	X	X		

TEST INSTRUCTIONS & COMMENTS

C = composite
X = discrete

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	16	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		Sargis-P
Date:	6/18/18		6/18/18
Time:	1300		1545

	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	Sargis-P		Jacqueline
Date:	6/18/18		6/18/18
Time:	1300		1545

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

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COOLER RECEIPT FORM

Client Name: Place Works
Project Name: David Starr Jordan Senior HS SSJ
AETL Job Number: 93005
Date Received: 06/19/18 Received by: Jean Claude
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.1°C, No 2: _____, No 3: _____
Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): 5035 kit
How are samples preserved: ☐ None, ☒ Ice, ☒ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, X HCl, _ $Na_2S_2O_3$, X MeOH
X Other (Specify): $NaHSO_4H_2O$
X 5035 kit preserved into the field

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontarion, CA 91764**

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 06/18/2018
Date Reported 06/26/2018

Job Number	Order Date	Client
93005	06/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 6 samples with the following specification on 06/18/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93005.05	WATER	06/18/2018	Aqueous	8

Method ^ Submethod	Req Date	Priority	TAT	Units
6010/7000CAM	06/25/2018	2	Normal	mg/L
8081A	06/25/2018	2	Normal	ug/L
8260B	06/25/2018	2	Normal	ug/L
M8015D ^ C13-C40	06/25/2018	2	Normal	mg/L
M8015G	06/25/2018	2	Normal	mg/L

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93005.01	WASTE 1	06/12/2018	Soil	1
93005.02	WASTE 2	06/12/2018	Soil	1
93005.03	WASTE 3	06/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	06/25/2018	2	Normal	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93005.04	WASTE 4	06/18/2018	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
(8260B)	06/25/2018	2	Normal	ug/Kg
(M8015G)	06/25/2018	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93005.06	COMP. of 1,2,3,4	06/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B/7000CAM)	06/25/2018	2	Normal	mg/Kg
(8081A)	06/25/2018	2	Normal	ug/Kg
(M8015D) ^ C13-C40	06/25/2018	2	Normal	mg/Kg

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
93005	06/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620182A1

Our Lab I.D.			Method Blank	93005.04			
Client Sample I.D.				WASTE 4			
Date Sampled				06/18/2018			
Date Prepared			06/20/2018	06/18/2018			
Preparation Method			5030	5035A			
Date Analyzed			06/20/2018	06/20/2018			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	25	50	ND	ND			
Benzene	1.0	10.0	ND	2.03J			
Bromobenzene (Phenyl bromide)	5.0	10.0	ND	ND			
Bromochloromethane	5.0	10.0	ND	ND			
Bromodichloromethane	5.0	10.0	ND	ND			
Bromoform (Tribromomethane)	25	50	ND	ND			
Bromomethane (Methyl bromide)	15	30	ND	ND			
2-Butanone (MEK)	25	50	ND	ND			
n-Butylbenzene	5.0	10.0	ND	ND			
sec-Butylbenzene	5.0	10.0	ND	ND			
tert-Butylbenzene	5.0	10.0	ND	ND			
Carbon Disulfide	25	50	ND	ND			
Carbon tetrachloride	5.0	10.0	ND	ND			
Chlorobenzene	5.0	10.0	ND	ND			
Chloroethane	15	30	ND	ND			
2-Chloroethyl vinyl ether	50	50	ND	ND			
Chloroform (Trichloromethane)	5.0	10.0	ND	ND			
Chloromethane (Methyl chloride)	15	30	ND	ND			
2-Chlorotoluene	5.0	10.0	ND	ND			
4-Chlorotoluene	5.0	10.0	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	5.0	10.0	ND	ND			
Dibromochloromethane	5.0	10.0	ND	ND			
1,2-Dibromoethane (EDB)	5.0	10.0	ND	ND			
Dibromomethane	5.0	10.0	ND	ND			
1,2-Dichlorobenzene	5.0	10.0	ND	ND			
1,3-Dichlorobenzene	5.0	10.0	ND	ND			
1,4-Dichlorobenzene	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620182A1

Our Lab I.D.			Method Blank	93005.04			
Client Sample I.D.				WASTE 4			
Date Sampled				06/18/2018			
Date Prepared			06/20/2018	06/18/2018			
Preparation Method			5030	5035A			
Date Analyzed			06/20/2018	06/20/2018			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	15	30	ND	ND			
1,1-Dichloroethane	5.0	10.0	ND	ND			
1,2-Dichloroethane (EDC)	5.0	10.0	ND	ND			
1,1-Dichloroethene	5.0	10.0	ND	ND			
cis-1,2-Dichloroethene	5.0	10.0	ND	ND			
trans-1,2-Dichloroethene	5.0	10.0	ND	ND			
1,2-Dichloropropane	5.0	10.0	ND	ND			
1,3-Dichloropropane	5.0	10.0	ND	ND			
2,2-Dichloropropane	5.0	10.0	ND	ND			
1,1-Dichloropropene	5.0	10.0	ND	ND			
cis-1,3-Dichloropropene	5.0	10.0	ND	ND			
trans-1,3-Dichloropropene	5.0	10.0	ND	ND			
Ethylbenzene	1.0	10.0	ND	ND			
Hexachlorobutadiene	15	30	ND	ND			
2-Hexanone	25	50	ND	ND			
Iodomethane	5.0	10.0	ND	ND			
Isopropylbenzene	5.0	10.0	ND	ND			
p-Isopropyltoluene	5.0	10.0	ND	ND			
4-Methyl-2-pentanone (MIBK)	25	50	ND	ND			
Methyl-tert-butyl ether (MTBE)	2.0	10.0	ND	ND			
Methylene chloride (DCM)	25	50	ND	ND			
Naphthalene	5.0	10.0	ND	ND			
n-Propylbenzene	5.0	10.0	ND	ND			
Styrene	5.0	10.0	ND	ND			
1,1,1,2-Tetrachloroethane	5.0	10.0	ND	ND			
1,1,2,2-Tetrachloroethane	5.0	10.0	ND	ND			
Tetrachloroethene	2.0	10.0	ND	ND			
Toluene (Methyl benzene)	1.0	10.0	ND	1.01J			
1,2,3-Trichlorobenzene	5.0	10.0	ND	ND			
1,2,4-Trichlorobenzene	5.0	10.0	ND	ND			
1,1,1-Trichloroethane	5.0	10.0	ND	ND			
1,1,2-Trichloroethane	5.0	10.0	ND	ND			
Trichloroethene	1.5	10.0	ND	ND			
Trichlorofluoromethane	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620182A1

Our Lab I.D.			Method Blank	**93005.04**			
Client Sample I.D.				WASTE 4			
Date Sampled				**06/18/2018**			
Date Prepared			**06/20/2018**	**06/18/2018**			
Preparation Method			**5030**	**5035A**			
Date Analyzed			**06/20/2018**	**06/20/2018**			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,2,3-Trichloropropane	**1.0**	**5.0**	**ND**	**ND**			
1,2,4-Trimethylbenzene	**5.0**	**10.0**	**ND**	**ND**			
1,3,5-Trimethylbenzene	**5.0**	**10.0**	**ND**	**ND**			
Vinyl Acetate	**25**	**50**	**ND**	**ND**			
Vinyl chloride (Chloroethene)	**5.0**	**10.0**	**ND**	**ND**			
o-Xylene	**1.0**	**10.0**	**ND**	**ND**			
m,p-Xylenes	**1.0**	**20.0**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**93005.04**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	**75-125**		**96.9**	**100**			
Dibromofluoromethane	**75-125**		**120**	**121**			
Toluene-d8	**75-125**		**102**	**105**			

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ANALYTICAL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061918OB1

Our Lab I.D.			Method Blank	**93005.04**			
Client Sample I.D.				WASTE 4			
Date Sampled				**06/18/2018**			
Date Prepared			**06/19/2018**	**06/18/2018**			
Preparation Method			**5030**	**5035A**			
Date Analyzed			**06/19/2018**	**06/19/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Gasoline and Light HC. (C4-C12)	**0.100**	**1.000**	**ND**	**0.927J**			
Our Lab I.D.			Method Blank	**93005.04**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	**75-125**		**109**	**108**			

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ANALYTICAL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061918PB1

Our Lab I.D.			Method Blank	**93005.06**			
Client Sample I.D.				COMP. of 1,2,3,4			
Date Sampled				**06/18/2018**			
Date Prepared			**06/19/2018**	**06/19/2018**			
Preparation Method			**3550B**	**3550B**			
Date Analyzed			**06/19/2018**	**06/19/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	**1.0**	**5.0**	**ND**	**187**			
TPH as Heavy Hydrocarbons (C23-C40)	**1.0**	**5.0**	**ND**	**54.9**			
TPH Total as Diesel and Heavy HC.C13-C40	**1.0**	**5.0**	**ND**	**242**			
Our Lab I.D.			Method Blank	**93005.06**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	**75-125**		**108**	**85.1**			

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ANALYTICAL RESULTS

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Page: **7**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 061818EB1

Our Lab I.D.			Method Blank	93005.06			
Client Sample I.D.				COMP. of 1,2,3,4			
Date Sampled				06/18/2018			
Date Prepared			06/18/2018	06/18/2018			
Preparation Method			3550B	3550B			
Date Analyzed			06/19/2018	06/19/2018			
Matrix			Soil	Soil			
Units			ug/Kg	ug/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	1.0	2.0	ND	ND			
Chlordane (Total)	1.0	2.0	ND	ND			
Chlordane (alpha)	1.0	2.0	ND	ND			
4,4'-DDD (DDD)	1.0	2.0	ND	1.65J			
4,4'-DDE (DDE)	1.0	2.0	ND	19.4			
4,4'-DDT (DDT)	1.0	2.0	ND	17.4			
Dieldrin	1.0	2.0	ND	1.68J			
Endosulfan 1	1.0	2.0	ND	ND			
Endosulfan 11	1.0	2.0	ND	ND			
Endosulfan sulfate	1.0	2.0	ND	ND			
Endrin	1.0	2.0	ND	ND			
Endrin aldehyde	1.0	2.0	ND	ND			
Endrin ketone	1.0	2.0	ND	ND			
Chlordane (gamma)	1.0	2.0	ND	ND			
Heptachlor	1.0	2.0	ND	ND			
Heptachlor epoxide	1.0	2.0	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	1.0	2.0	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	1.0	2.0	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	1.0	2.0	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	1.0	2.0	ND	ND			
Methoxychlor	5.0	10.0	ND	ND			
Toxaphene	85.0	170.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (8081A), Organochlorine Pesticides by GC

Our Lab I.D.			Method Blank	**93005.06**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	**30-150**		**73.2**	**58.4**			
Tetrachloro-m-xylene	**30-150**		**116**	**78.0**			

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David Starr Jordan SHS
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Los Angeles, CA 90002

Page: **9**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0620182C9

Our Lab I.D.			Method Blank	93005.06			
Client Sample I.D.				COMP. of 1,2,3,4			
Date Sampled				06/18/2018			
Date Prepared			06/20/2018	06/20/2018			
Preparation Method			3050B	3050B			
Date Analyzed			06/21/2018	06/21/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	1.0	5.0	ND	ND			
Arsenic	1.0	5.0	ND	ND			
Barium	2.5	5.0	ND	135			
Beryllium	1.3	2.5	ND	ND			
Cadmium	1.3	2.5	ND	ND			
Chromium	2.5	5.0	ND	17.9			
Cobalt	2.5	5.0	ND	10.9			
Copper	2.5	5.0	ND	30.1			
Lead	2.5	5.0	ND	9.85			
Mercury (By EPA 7471)	0.1	0.2	ND	ND			
Molybdenum	2.5	5.0	ND	ND			
Nickel	2.5	5.0	ND	12.0			
Selenium	1.0	5.0	ND	ND			
Silver	2.5	5.0	ND	ND			
Thallium	0.7	5.0	ND	ND			
Vanadium	2.5	5.0	ND	47.8			
Zinc	2.5	5.0	ND	107			

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ANALYTICAL RESULTS

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Page: **10**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620181A1

Our Lab I.D.			Method Blank	93005.05			
Client Sample I.D.				WATER			
Date Sampled				06/18/2018			
Date Prepared			06/20/2018	06/18/2018			
Preparation Method			5030B	5030B			
Date Analyzed			06/20/2018	06/20/2018			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Acetone	10	10	ND	ND			
Benzene	0.5	1.0	ND	ND			
Bromobenzene (Phenyl bromide)	0.5	1.0	ND	ND			
Bromochloromethane	0.5	1.0	ND	ND			
Bromodichloromethane	0.5	1.0	ND	ND			
Bromoform (Tribromomethane)	2.5	5.0	ND	ND			
Bromomethane (Methyl bromide)	1.5	3.0	ND	ND			
2-Butanone (MEK)	5.0	5.0	ND	ND			
n-Butylbenzene	0.5	1.0	ND	ND			
sec-Butylbenzene	0.5	1.0	ND	ND			
tert-Butylbenzene	0.5	1.0	ND	ND			
Carbon Disulfide	0.5	1.0	ND	ND			
Carbon tetrachloride	0.5	1.0	ND	ND			
Chlorobenzene	0.5	1.0	ND	ND			
Chloroethane	1.5	3.0	ND	ND			
2-Chloroethyl vinyl ether	2.5	5.0	ND	ND			
Chloroform (Trichloromethane)	0.5	1.0	ND	ND			
Chloromethane (Methyl chloride)	1.5	3.0	ND	ND			
2-Chlorotoluene	0.5	1.0	ND	ND			
4-Chlorotoluene	0.5	1.0	ND	ND			
1,2-Dibromo-3-chloropropane (DBCP)	2.5	5.0	ND	ND			
Dibromochloromethane	0.5	1.0	ND	0.760J			
1,2-Dibromoethane (EDB)	0.5	1.0	ND	ND			
Dibromomethane	0.5	1.0	ND	ND			
1,2-Dichlorobenzene	0.5	1.0	ND	ND			
1,3-Dichlorobenzene	0.5	1.0	ND	ND			
1,4-Dichlorobenzene	0.5	1.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620181A1

Our Lab I.D.			Method Blank	**93005.05**			
Client Sample I.D.				WATER			
Date Sampled				**06/18/2018**			
Date Prepared			**06/20/2018**	**06/18/2018**			
Preparation Method			**5030B**	**5030B**			
Date Analyzed			**06/20/2018**	**06/20/2018**			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Dichlorodifluoromethane	**1.5**	**3.0**	**ND**	**ND**			
1,1-Dichloroethane	**0.5**	**1.0**	**ND**	**ND**			
1,2-Dichloroethane (EDC)	**0.5**	**1.0**	**ND**	**ND**			
1,1-Dichloroethene	**0.5**	**1.0**	**ND**	**ND**			
cis-1,2-Dichloroethene	**0.5**	**1.0**	**ND**	**ND**			
trans-1,2-Dichloroethene	**0.5**	**1.0**	**ND**	**ND**			
1,2-Dichloropropane	**0.5**	**1.0**	**ND**	**ND**			
1,3-Dichloropropane	**0.5**	**1.0**	**ND**	**ND**			
2,2-Dichloropropane	**0.5**	**1.0**	**ND**	**ND**			
1,1-Dichloropropene	**0.5**	**1.0**	**ND**	**ND**			
cis-1,3-Dichloropropene	**0.5**	**1.0**	**ND**	**ND**			
trans-1,3-Dichloropropene	**0.5**	**1.0**	**ND**	**ND**			
Ethylbenzene	**0.5**	**1.0**	**ND**	**ND**			
Hexachlorobutadiene	**1.5**	**3.0**	**ND**	**ND**			
2-Hexanone	**2.5**	**5.0**	**ND**	**ND**			
Iodomethane	**0.5**	**1.0**	**ND**	**ND**			
Isopropylbenzene	**0.5**	**1.0**	**ND**	**ND**			
p-Isopropyltoluene	**0.5**	**1.0**	**ND**	**ND**			
4-Methyl-2-pentanone (MIBK)	**2.5**	**5.0**	**ND**	**ND**			
Methyl-tert-butyl ether (MTBE)	**0.5**	**1.0**	**ND**	**ND**			
Methylene chloride (DCM)	**2.0**	**4.0**	**ND**	**ND**			
Naphthalene	**0.5**	**1.0**	**ND**	**ND**			
n-Propylbenzene	**0.5**	**1.0**	**ND**	**ND**			
Styrene	**0.5**	**1.0**	**ND**	**ND**			
1,1,1,2-Tetrachloroethane	**0.5**	**1.0**	**ND**	**ND**			
1,1,2,2-Tetrachloroethane	**0.5**	**1.0**	**ND**	**ND**			
Tetrachloroethene	**0.5**	**1.0**	**ND**	**ND**			
Toluene (Methyl benzene)	**0.5**	**1.0**	**ND**	**ND**			
1,2,3-Trichlorobenzene	**0.5**	**1.0**	**ND**	**ND**			
1,2,4-Trichlorobenzene	**0.5**	**1.0**	**ND**	**ND**			
1,1,1-Trichloroethane	**0.5**	**1.0**	**ND**	**ND**			
1,1,2-Trichloroethane	**0.5**	**1.0**	**ND**	**ND**			
Trichloroethene	**0.5**	**1.0**	**ND**	**ND**			
Trichlorofluoromethane	**0.5**	**1.0**	**ND**	**ND**			

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ANALYTICAL RESULTS

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620181A1

Our Lab I.D.			Method Blank	**93005.05**			
Client Sample I.D.				WATER			
Date Sampled				**06/18/2018**			
Date Prepared			**06/20/2018**	**06/18/2018**			
Preparation Method			**5030B**	**5030B**			
Date Analyzed			**06/20/2018**	**06/20/2018**			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
1,2,3-Trichloropropane	**0.5**	**1.0**	**ND**	**ND**			
Trichlorotrifluoroethane (Freon-113)	**0.5**	**1.0**	**ND**	**ND**			
1,2,4-Trimethylbenzene	**0.5**	**1.0**	**ND**	**ND**			
1,3,5-Trimethylbenzene	**0.5**	**1.0**	**ND**	**ND**			
Vinyl Acetate	**0.5**	**5.0**	**ND**	**ND**			
Vinyl chloride (Chloroethene)	**0.5**	**3.0**	**ND**	**ND**			
o-Xylene	**0.5**	**1.0**	**ND**	**ND**			
m,p-Xylenes	**1.0**	**2.0**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**93005.05**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	**75-125**		**112**	**117**			
Dibromofluoromethane	**75-125**		**92.2**	**93.7**			
Toluene-d8	**75-125**		**103**	**106**			

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: M8015G, TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 062218NB1

Our Lab I.D.			Method Blank	**93005.05**			
Client Sample I.D.				WATER			
Date Sampled				**06/18/2018**			
Date Prepared			**06/22/2018**	**06/18/2018**			
Preparation Method			**5030B**	**5030B**			
Date Analyzed			**06/22/2018**	**06/22/2018**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Gasoline and Light HC. (C4-C12)	**0.005**	**0.010**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**93005.05**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Bromofluorobenzene	**75-125**		**112**	**107**			

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David Starr Jordan SHS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 062118DB1

Our Lab I.D.			Method Blank	**93005.05**			
Client Sample I.D.				WATER			
Date Sampled				**06/18/2018**			
Date Prepared			**06/21/2018**	**06/21/2018**			
Preparation Method			**3510C**	**3510C**			
Date Analyzed			**06/22/2018**	**06/22/2018**			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
TPH as Diesel (C13-C22)	**0.1**	**0.5**	**ND**	**ND**			
TPH as Heavy Hydrocarbons (C23-C40)	**0.1**	**0.5**	**ND**	**ND**			
TPH Total as Diesel and Heavy HC.C13-C40	**0.1**	**0.5**	**ND**	**ND**			
Our Lab I.D.			Method Blank	**93005.05**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Chlorobenzene	**60-125**		**112**	**75.0**			

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David Starr Jordan SHS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 8081A, Organochlorine Pesticides by GC/ECD

QC Batch No: 062218EB

Our Lab I.D.			Method Blank	93005.05			
Client Sample I.D.				WATER			
Date Sampled				06/18/2018			
Date Prepared			06/22/2018	06/22/2018			
Preparation Method			3510C	3510C			
Date Analyzed			06/25/2018	06/25/2018			
Matrix			Aqueous	Aqueous			
Units			ug/L	ug/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Aldrin	0.05	0.10	ND	ND			
Chlordane (Total)	0.50	1.00	ND	ND			
Chlordane (alpha)	0.05	0.10	ND	ND			
4,4'-DDD (DDD)	0.10	0.20	ND	ND			
4,4'-DDE (DDE)	0.10	0.20	ND	ND			
4,4'-DDT (DDT)	0.10	0.20	ND	ND			
Dieldrin	0.10	0.20	ND	ND			
Endosulfan 1	0.05	0.10	ND	ND			
Endosulfan 11	0.10	0.20	ND	ND			
Endosulfan sulfate	0.10	0.20	ND	ND			
Endrin	0.10	0.20	ND	ND			
Endrin aldehyde	0.10	0.20	ND	ND			
Endrin ketone	0.10	0.20	ND	ND			
Chlordane (gamma)	0.05	0.10	ND	ND			
Heptachlor	0.05	0.10	ND	ND			
Heptachlor epoxide	0.05	0.10	ND	ND			
alpha-Hexachlorocyclohexane (Alpha-BHC)	0.05	0.10	ND	ND			
beta-Hexachlorocyclohexane (Betta-BHC)	0.05	0.10	ND	ND			
delta-Hexachlorocyclohexane (Delta-BHC)	0.05	0.10	ND	ND			
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.05	0.10	ND	ND			
Methoxychlor	0.50	1.00	ND	ND			
Toxaphene	5.0	10.0	ND	ND			

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ANALYTICAL RESULTS

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 8081A, Organochlorine Pesticides by GC/ECD

Our Lab I.D.			Method Blank	**93005.05**			
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**			
Decachlorobiphenyl	**30-150**		**62.2**	**47.2**			
Tetrachloro-m-xylene	**30-150**		**78.8**	**79.0**			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 0621182C6

Our Lab I.D.			Method Blank	93005.05			
Client Sample I.D.				WATER			
Date Sampled				06/18/2018			
Date Prepared			06/21/2018	06/21/2018			
Preparation Method			3005A	3005A			
Date Analyzed			06/22/2018	06/22/2018			
Matrix			Aqueous	Aqueous			
Units			mg/L	mg/L			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Antimony	0.05	0.10	ND	ND			
Arsenic	0.05	0.10	ND	ND			
Barium	0.03	0.05	ND	ND			
Beryllium	0.01	0.05	ND	ND			
Cadmium	0.01	0.05	ND	ND			
Chromium	0.01	0.05	ND	ND			
Cobalt	0.01	0.05	ND	ND			
Copper	0.01	0.05	ND	0.332			
Lead	0.05	0.10	ND	ND			
Mercury (By EPA 7470)	0.001	0.002	ND	ND			
Molybdenum	0.01	0.05	ND	ND			
Nickel	0.01	0.05	ND	ND			
Selenium	0.05	0.10	ND	ND			
Silver	0.01	0.05	ND	ND			
Thallium	0.05	0.10	ND	ND			
Vanadium	0.03	0.05	ND	ND			
Zinc	0.01	0.05	ND	0.086			

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 0621182C6; Dup or Spiked Sample: 92979.01; LCS: Clean Water; QC Prepared: 06/21/2018; QC Analyzed: 06/22/2018; 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
Antimony	0.00	1.00	0.866	86.6	1.00	0.862	86.2	<1	75-125	<15
Arsenic	0.00	1.00	0.947	94.7	1.00	0.961	96.1	1.5	75-125	<15
Barium	0.00	1.00	0.883	88.3	1.00	0.885	88.5	<1	75-125	<15
Beryllium	0.00	1.00	0.932	93.2	1.00	0.928	92.8	<1	75-125	<15
Cadmium	0.00	1.00	0.858	85.8	1.00	0.858	85.8	<1	75-125	<15
Chromium	0.00	1.00	0.902	90.2	1.00	0.899	89.9	<1	75-125	<15
Cobalt	0.00	1.00	0.881	88.1	1.00	0.881	88.1	<1	75-125	<15
Copper	0.147	1.00	1.14	99.3	1.00	1.15	100	<1	75-125	<15
Lead	0.00	1.00	0.838	83.8	1.00	0.835	83.5	<1	75-125	<15
Mercury (By EPA 7470)	0.00	0.0100	0.00951	95.1	0.0100	0.00962	96.2	1.2	75-125	<15
Molybdenum	0.00	1.00	0.899	89.9	1.00	0.900	90.0	<1	75-125	<15
Nickel	0.182	1.00	0.996	81.4	1.00	1.00	81.8	<1	75-125	<15
Selenium	0.00	1.00	0.862	86.2	1.00	0.871	87.1	1.0	75-125	<15
Silver	0.00	1.00	0.975	97.5	1.00	0.978	97.8	<1	75-125	<15
Thallium	0.00	1.00	0.832	83.2	1.00	0.817	81.7	1.8	75-125	<15
Vanadium	0.00	1.00	0.929	92.9	1.00	0.932	93.2	<1	75-125	<15
Zinc	0.00	1.00	0.965	96.5	1.00	0.965	96.5	<1	75-125	<15

QC Batch No: 0621182C6; Dup or Spiked Sample: 92979.01; LCS: Clean Water; QC Prepared: 06/21/2018; QC Analyzed: 06/22/2018; 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	
Antimony	1.00	0.962	96.2	1.00	0.968	96.8	<1	75-125	<15	
Arsenic	1.00	0.990	99.0	1.00	1.01	101	2.0	75-125	<15	
Barium	1.00	0.957	95.7	1.00	0.958	95.8	<1	75-125	<15	
Beryllium	1.00	0.989	98.9	1.00	0.998	99.8	<1	75-125	<15	
Cadmium	1.00	0.966	96.6	1.00	0.966	96.6	<1	75-125	<15	
Chromium	1.00	0.963	96.3	1.00	0.971	97.1	<1	75-125	<15	
Cobalt	1.00	0.940	94.0	1.00	0.948	94.8	<1	75-125	<15	
Copper	1.00	0.977	97.7	1.00	0.978	97.8	<1	75-125	<15	
Lead	1.00	0.914	91.4	1.00	0.933	93.3	2.1	75-125	<15	

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QUALITY CONTROL RESULTS

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 6010/7000CAM, Title 22 Metals (SW-846)

QC Batch No: 0621182C6; Dup or Spiked Sample: 92979.01; LCS: Clean Water; QC Prepared: 06/21/2018; QC Analyzed: 06/22/2018; 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	
Mercury (By EPA 7470)	**0.0100**	**0.0102**	**102**	**0.0100**	**0.0102**	**102**	**<1**	**75-125**	**<15**	
Molybdenum	**1.00**	**0.948**	**94.8**	**1.00**	**0.953**	**95.3**	**<1**	**75-125**	**<15**	
Nickel	**1.00**	**0.945**	**94.5**	**1.00**	**0.954**	**95.4**	**<1**	**75-125**	**<15**	
Selenium	**1.00**	**0.944**	**94.4**	**1.00**	**0.952**	**95.2**	**<1**	**75-125**	**<15**	
Silver	**1.00**	**0.955**	**95.5**	**1.00**	**0.960**	**96.0**	**<1**	**75-125**	**<15**	
Thallium	**1.00**	**0.919**	**91.9**	**1.00**	**0.921**	**92.1**	**<1**	**75-125**	**<15**	
Vanadium	**1.00**	**1.01**	**101**	**1.00**	**1.01**	**101**	**<1**	**75-125**	**<15**	
Zinc	**1.00**	**1.05**	**105**	**1.00**	**1.06**	**106**	**<1**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 8081A, Organochlorine Pesticides by GC/ECD

QC Batch No: 062218EB; Dup or Spiked Sample: 0622; LCS: Clean Water; QC Prepared: 06/22/2018; QC Analyzed: 06/25/2018; Units: ug/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
Aldrin	0.00	0.400	0.436	109	0.400	0.404	101	7.6	40-140	<40
4,4'-DDT (DDT)	0.00	1.00	1.27	127	1.00	1.07	107	17.1	40-140	<40
Dieldrin	0.00	1.00	1.05	105	1.00	0.970	97.0	7.9	40-140	<40
Endrin	0.00	1.00	1.31	131	1.00	1.15	115	13.0	40-140	<40
Heptachlor	0.00	0.400	0.556	139	0.400	0.488	122	13.0	40-140	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	0.400	0.588	147	0.400	0.540	135	8.5	40-140	<40
Surrogates										
Decachlorobiphenyl	0.00	0.500	0.371	74.2	0.500	0.333	66.6	10.8	30-150	<20
Tetrachloro-m-xylene	0.00	0.500	0.525	105	0.500	0.445	89.0	16.5	30-150	<20

QC Batch No: 062218EB; Dup or Spiked Sample: 0622; LCS: Clean Water; QC Prepared: 06/22/2018; QC Analyzed: 06/25/2018; Units: ug/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit						
Aldrin	0.400	0.351	87.8	40-140						
4,4'-DDT (DDT)	1.00	1.11	111	40-140						
Dieldrin	1.00	0.940	94.0	40-140						
Endrin	1.00	1.17	117	40-140						
Heptachlor	0.400	0.428	107	40-140						
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.400	0.500	125	40-140						
Surrogates										
Decachlorobiphenyl	0.500	0.328	65.6	30-150						
Tetrachloro-m-xylene	0.500	0.432	86.4	30-150						

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Page: **21**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620181A1; Dup or Spiked Sample: B0620181A1; LCS: Clean Water; QC Prepared: 06/20/2018; QC Analyzed: 06/20/2018; Units: ug/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
Benzene	0.00	50.0	51.0	102	50.0	50.0	100	2.0	75-125	<20
Carbon tetrachloride	0.00	50.0	53.5	107	50.0	53.0	106	<1	75-125	<20
Chlorobenzene	0.00	50.0	50.5	101	50.0	50.5	101	<1	75-125	<20
Chloroform (Trichloromethane)	0.00	50.0	49.8	99.6	50.0	49.6	99.2	<1	75-125	<20
1,2-Dichlorobenzene	0.00	50.0	45.8	91.6	50.0	47.0	94.0	2.6	75-125	<20
1,1-Dichloroethane	0.00	50.0	51.0	102	50.0	51.0	102	<1	75-125	<20
1,1-Dichloroethene	0.00	50.0	54.0	108	50.0	53.5	107	<1	75-125	<20
cis-1,2-Dichloroethene	0.00	50.0	52.0	104	50.0	51.5	103	<1	75-125	<20
Ethylbenzene	0.00	50.0	52.0	104	50.0	51.5	103	<1	75-125	<20
Methyl-tert-butyl ether (MTBE)	0.00	50.0	45.7	91.4	50.0	45.5	91.0	<1	75-125	<20
n-Propylbenzene	0.00	50.0	48.9	97.8	50.0	49.6	99.2	1.4	75-125	<20
Toluene (Methyl benzene)	0.00	50.0	53.0	106	50.0	52.5	105	<1	75-125	<20
1,1,1-Trichloroethane	0.00	50.0	57.0	114	50.0	55.5	111	2.7	75-125	<20
1,1,2-Trichloroethane	0.00	50.0	46.1	92.2	50.0	45.3	90.6	1.8	75-125	<20
Trichloroethene	0.00	50.0	53.0	106	50.0	52.0	104	1.9	75-125	<20
1,2,4-Trimethylbenzene	0.00	50.0	47.1	94.2	50.0	47.7	95.4	1.3	75-125	<20
1,3,5-Trimethylbenzene	0.00	50.0	48.4	96.8	50.0	49.1	98.2	1.4	75-125	<20
o-Xylene	0.00	50.0	50.0	100	50.0	50.5	101	<1	75-125	<20
m,p-Xylenes	0.00	100	103	103	100	102	102	<1	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	50.0	45.5	90.9	50.0	45.6	91.1	<1	75-125	<20
Dibromofluoromethane	0.00	50.0	47.4	94.8	50.0	47.5	95.0	<1	75-125	<20
Toluene-d8	0.00	50.0	51.0	102	50.0	51.0	102	<1	75-125	<20

QC Batch No: 0620181A1; Dup or Spiked Sample: B0620181A1; LCS: Clean Water; QC Prepared: 06/20/2018; QC Analyzed: 06/20/2018; Units: ug/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	
Benzene	50.0	51.5	103	50.0	50.0	100	3.0	75-125	<20	
Carbon tetrachloride	50.0	62.0	124	50.0	58.0	116	6.7	75-125	<20	
Chlorobenzene	50.0	53.0	106	50.0	51.5	103	2.9	75-125	<20	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: 8260B, Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620181A1; Dup or Spiked Sample: B0620181A1; LCS: Clean Water; QC Prepared: 06/20/2018; QC Analyzed: 06/20/2018; Units: ug/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	
Chloroform (Trichloromethane)	50.0	45.8	91.6	50.0	45.2	90.4	1.3	75-125	<20	
1,2-Dichlorobenzene	50.0	49.1	98.2	50.0	48.0	96.0	2.3	75-125	<20	
1,1-Dichloroethane	50.0	48.4	96.8	50.0	47.0	94.0	2.9	75-125	<20	
1,1-Dichloroethene	50.0	55.0	110	50.0	53.0	106	3.7	75-125	<20	
cis-1,2-Dichloroethene	50.0	48.0	96.0	50.0	47.5	95.0	1.0	75-125	<20	
Ethylbenzene	50.0	56.5	113	50.0	54.0	108	4.5	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	40.3	80.6	50.0	39.5	79.0	2.0	75-125	<20	
n-Propylbenzene	50.0	56.0	112	50.0	53.5	107	4.6	75-125	<20	
Toluene (Methyl benzene)	50.0	56.0	112	50.0	53.5	107	4.6	75-125	<20	
1,1,1-Trichloroethane	50.0	62.5	125	50.0	59.0	118	5.8	75-125	<20	
1,1,2-Trichloroethane	50.0	46.0	92.0	50.0	45.0	90.0	2.2	75-125	<20	
Trichloroethene	50.0	55.0	110	50.0	52.0	104	5.6	75-125	<20	
1,2,4-Trimethylbenzene	50.0	51.5	103	50.0	49.0	98.0	5.0	75-125	<20	
1,3,5-Trimethylbenzene	50.0	53.5	107	50.0	51.0	102	4.8	75-125	<20	
o-Xylene	50.0	53.0	106	50.0	51.0	102	3.8	75-125	<20	
m,p-Xylenes	100	111	111	100	107	107	3.7	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	45.6	91.2	50.0	45.4	90.8	<1	75-125	<20	
Dibromofluoromethane	50.0	43.3	86.5	50.0	43.3	86.5	<1	75-125	<20	
Toluene-d8	50.0	50.0	100	50.0	49.9	99.7	<1	75-125	<20	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: M8015D, TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 062118DB1; Dup or Spiked Sample: 0621; LCS: Clean Water; QC Prepared: 06/21/2018; QC Analyzed: 06/22/2018; 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
TPH as Diesel (C13-C22)	0.00	5.00	5.75	115	5.00	5.70	114	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	2.00	2.50	125	2.00	1.96	98.0	24.2	60-125	<20

QC Batch No: 062118DB1; Dup or Spiked Sample: 0621; LCS: Clean Water; QC Prepared: 06/21/2018; QC Analyzed: 06/22/2018; Units: mg/L

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS/LCSD % Limit
TPH as Diesel (C13-C22)	5.00	5.30	106	75-125
Surrogates				
Chlorobenzene	2.00	1.97	98.5	60-125

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: M8015G, TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 062218NB1; LCS: Clean Water; LCS Prepared: 06/22/2018; LCS Analyzed: 06/22/2018; 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	
TPH as Gasoline and Light HC. (C4-C12)	**0.500**	**0.492**	**98.4**	**0.500**	**0.500**	**100**	**1.6**	**75-125**	**<20**	
Surrogates										
Bromofluorobenzene	**0.0500**	**0.0560**	**112**	**0.0500**	**0.0510**	**102**	**9.3**	**75-125**	**<20**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0620182C9; Dup or Spiked Sample: 93019.01; LCS: Clean Sand; QC Prepared: 06/20/2018; QC Analyzed: 06/21/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Antimony	0.00	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15
Arsenic	0.00	50.0	51.0	102	50.0	52.0	104	1.9	75-125	<15
Barium	60.4	50.0	111	101	50.0	113	105	3.9	75-125	<15
Beryllium	0.00	50.0	51.5	103	50.0	52.5	105	1.9	75-125	<15
Cadmium	0.00	50.0	50.5	101	50.0	50.5	101	<1	75-125	<15
Chromium	6.35	50.0	56.9	101	50.0	56.9	101	<1	75-125	<15
Cobalt	4.67	50.0	55.2	101	50.0	55.2	101	<1	75-125	<15
Copper	8.18	50.0	64.2	112	50.0	65.2	114	1.8	75-125	<15
Lead	2.55	50.0	48.4	91.7	50.0	48.6	92.1	<1	75-125	<15
Mercury (By EPA 7471)	0.0620	0.500	0.536	94.8	0.500	0.533	94.2	<1	75-125	<15
Molybdenum	0.00	50.0	50.0	100	50.0	50.0	100	<1	75-125	<15
Nickel	3.66	50.0	51.7	96.1	50.0	51.7	96.1	<1	75-125	<15
Selenium	0.00	50.0	41.1	82.2	50.0	40.6	81.2	1.2	75-125	<15
Silver	0.00	50.0	46.9	93.8	50.0	47.6	95.2	1.5	75-125	<15
Thallium	0.00	50.0	48.1	96.2	50.0	48.3	96.6	<1	75-125	<15
Vanadium	22.2	50.0	73.7	103	50.0	74.7	105	1.9	75-125	<15
Zinc	32.5	50.0	79.8	94.6	50.0	79.8	94.6	<1	75-125	<15

QC Batch No: 0620182C9; Dup or Spiked Sample: 93019.01; LCS: Clean Sand; QC Prepared: 06/20/2018; QC Analyzed: 06/21/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Antimony	50.0	52.5	105	50.0	52.0	104	<1	75-125	<15	
Arsenic	50.0	54.5	109	50.0	54.0	108	<1	75-125	<15	
Barium	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15	
Beryllium	50.0	52.0	104	50.0	52.0	104	<1	75-125	<15	
Cadmium	50.0	51.5	103	50.0	51.5	103	<1	75-125	<15	
Chromium	50.0	51.5	103	50.0	51.0	102	<1	75-125	<15	
Cobalt	50.0	53.5	107	50.0	53.5	107	<1	75-125	<15	
Copper	50.0	54.0	108	50.0	54.0	108	<1	75-125	<15	
Lead	50.0	51.5	103	50.0	50.5	101	2.0	75-125	<15	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (6010B/7000CAM), Title 22 Metals (SW-846)

QC Batch No: 0620182C9; Dup or Spiked Sample: 93019.01; LCS: Clean Sand; QC Prepared: 06/20/2018; QC Analyzed: 06/21/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Mercury (By EPA 7471)	**0.500**	**0.565**	**113**	**0.500**	**0.570**	**114**	**<1**	**75-125**	**<15**	
Molybdenum	**50.0**	**50.5**	**101**	**50.0**	**49.8**	**99.6**	**1.4**	**75-125**	**<15**	
Nickel	**50.0**	**51.0**	**102**	**50.0**	**51.0**	**102**	**<1**	**75-125**	**<15**	
Selenium	**50.0**	**53.5**	**107**	**50.0**	**54.5**	**109**	**1.9**	**75-125**	**<15**	
Silver	**50.0**	**51.5**	**103**	**50.0**	**52.0**	**104**	**<1**	**75-125**	**<15**	
Thallium	**50.0**	**58.0**	**116**	**50.0**	**57.0**	**114**	**1.7**	**75-125**	**<15**	
Vanadium	**50.0**	**53.0**	**106**	**50.0**	**53.0**	**106**	**<1**	**75-125**	**<15**	
Zinc	**50.0**	**52.5**	**105**	**50.0**	**52.0**	**104**	**<1**	**75-125**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (8081A), Organochlorine Pesticides by GC

QC Batch No: 061818EB1; Dup or Spiked Sample: 92991.01; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: ug/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Aldrin	0.00	20.0	19.5	97.5	20.0	20.0	100	2.5	40-150	<40
4,4'-DDT (DDT)	0.00	50.0	54.0	108	50.0	51.0	102	5.7	40-150	<40
Dieldrin	0.00	50.0	49.3	98.6	50.0	49.6	99.2	<1	40-150	<40
Endrin	0.00	50.0	58.5	117	50.0	57.5	115	1.7	40-150	<40
Heptachlor	0.00	20.0	20.6	103	20.0	20.6	103	<1	40-150	<40
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	0.00	20.0	23.6	118	20.0	24.2	121	2.5	40-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	18.6	74.4	25.0	17.9	71.6	3.8	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	26.3	105	25.0	26.5	106	<1	30-150	<40

QC Batch No: 061818EB1; Dup or Spiked Sample: 92991.01; LCS: Clean Sand; QC Prepared: 06/18/2018; QC Analyzed: 06/19/2018; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Aldrin	20.0	20.8	104	20.0	20.4	102	1.9	50-150	<40	
4,4'-DDT (DDT)	50.0	56.0	112	50.0	46.5	93.0	18.5	50-150	<40	
Dieldrin	50.0	52.0	104	50.0	50.5	101	2.9	50-150	<40	
Endrin	50.0	58.5	117	50.0	54.0	108	8.0	50-150	<40	
Heptachlor	20.0	22.2	111	20.0	20.8	104	6.5	50-150	<40	
gamma-Hexachlorocyclohexane (Gamma-BHC, Lindane)	20.0	24.8	124	20.0	24.6	123	<1	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	20.3	81.2	25.0	18.3	73.2	10.4	30-150	<40	
Tetrachloro-m-xylene	25.0	26.3	105	25.0	27.8	111	5.6	30-150	<40	

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (8260B), Volatile Organic Compounds by GC/MS (SW846)

QC Batch No: 0620182A1; LCS: Clean Sand; LCS Prepared: 06/20/2018; LCS Analyzed: 06/20/2018; Units: ug/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Benzene	50.0	51.0	102	50.0	51.0	102	<1	75-125	<20	
Carbon tetrachloride	50.0	55.5	111	50.0	55.5	111	<1	75-125	<20	
Chlorobenzene	50.0	51.5	103	50.0	50.0	100	3.0	75-125	<20	
Chloroform (Trichloromethane)	50.0	53.5	107	50.0	53.5	107	<1	75-125	<20	
1,2-Dichlorobenzene	50.0	47.7	95.4	50.0	48.0	96.0	<1	75-125	<20	
1,1-Dichloroethane	50.0	51.5	103	50.0	51.5	103	<1	75-125	<20	
1,1-Dichloroethene	50.0	55.5	111	50.0	55.0	110	<1	75-125	<20	
cis-1,2-Dichloroethene	50.0	60.0	120	50.0	58.5	117	2.5	75-125	<20	
Ethylbenzene	50.0	48.0	96.0	50.0	47.0	94.0	2.1	75-125	<20	
Methyl-tert-butyl ether (MTBE)	50.0	57.5	115	50.0	57.0	114	<1	75-125	<20	
n-Propylbenzene	50.0	47.4	94.8	50.0	48.5	97.0	2.3	75-125	<20	
Toluene (Methyl benzene)	50.0	48.9	97.8	50.0	47.5	95.0	2.9	75-125	<20	
1,1,1-Trichloroethane	50.0	54.0	108	50.0	53.0	106	1.9	75-125	<20	
1,1,2-Trichloroethane	50.0	52.0	104	50.0	52.0	104	<1	75-125	<20	
Trichloroethene	50.0	57.0	114	50.0	56.0	112	1.8	75-125	<20	
1,2,4-Trimethylbenzene	50.0	48.8	97.6	50.0	47.5	95.0	2.7	75-125	<20	
1,3,5-Trimethylbenzene	50.0	46.7	93.4	50.0	46.0	92.0	1.5	75-125	<20	
o-Xylene	50.0	49.1	98.2	50.0	46.5	93.0	5.4	75-125	<20	
m,p-Xylenes	100	99.5	99.5	100	98.1	98.1	1.4	75-125	<20	
Surrogates										
Bromofluorobenzene	50.0	47.4	94.7	50.0	49.2	98.4	3.8	75-125	<20	
Dibromofluoromethane	50.0	48.9	97.8	50.0	48.7	97.4	<1	75-125	<20	
Toluene-d8	50.0	47.9	95.7	50.0	47.1	94.1	1.7	75-125	<20	

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Ontarion, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson
Page: **29**

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 061918PB1; Dup or Spiked Sample: 92994.04; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	2,810	500	3,380	113	500	3,530 #	144	24.1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	106	106	100	107	107	<1	75-125	<20

QC Batch No: 061918PB1; Dup or Spiked Sample: 92994.04; LCS: Clean Sand; QC Prepared: 06/19/2018; QC Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	478	95.6	500	485	97.0	1.5	75-125	<20	
Surrogates										
Chlorobenzene	100	104	104	100	105	105	<1	75-125	<20	

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QUALITY CONTROL RESULTS

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Ontarion, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **30**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93005	06/18/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 061918OB1; Dup or Spiked Sample: 93005.04AGA; LCS: Clean Sand; QC Prepared: 06/19/2018;MS Analyzed: 06/20/2018; LCS Analyzed: 06/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Gasoline and Light HC. (C4-C12)	0.927	1.00	4.72 #	379	1.00	4.13 #	320	16.9	75-125	<20
Surrogates										
Bromofluorobenzene	0.00	0.0500	0.0477	95.4	0.0500	0.0520	104	8.6	75-125	<20

QC Batch No: 061918OB1; Dup or Spiked Sample: 93005.04AGA; LCS: Clean Sand; QC Prepared: 06/19/2018;MS Analyzed: 06/20/2018; LCS Analyzed: 06/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	1.00	0.844	84.4	1.00	0.900	90.0	6.4	75-125	<20	
Surrogates										
Bromofluorobenzene	0.0500	0.0520	104	0.0500	0.0515	103	<1	75-125	<20	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attention: Mike Watson

Number of Pages	**59**
Date Received	**07/13/2018**
Date Reported	**09/10/2018**

Job Number	Order Date	Client
93259	07/13/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 34 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

108739

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 IMAND EMPIRE BL, SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS, 2265 E 103rd St, LA, CA 90002
PO #:
AETL JOB No. 93259
Page 1 of 8

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-46-G-6"		7/13/18	0745	Soil	1 g acetate sleeve	ice
2	SSI-46-G-18"			0747			
3	DUP30						
4	SSI-46-C-6"			0753			
5	SSI-46-C-18"			0755			
6	SSI-46-D-6"			0800			
7	SSI-46-D-18"			0802			
8	SSI-46-A-6"			0803			
9	SSI-46-A-18"			0805			
10	DUP31						
11	SSI-46-B-6"			0806			
12	SSI-46-B-18"			0808			
13	SSI-46-F-6"			0810			
14	SSI-46F-18"			0812			
15	SSI-45-G-6"			0818			

ANALYSIS REQUESTED

EPA 6020 As	EPA 6020 Pb	Hold
⊕		X
		X
		X
X		
*		X
*		X
		X
X		
*		X
		X
X		
		X
		X
		X
*	*	X

TEST INSTRUCTIONS & COMMENTS

*(3) 7/19 3 DAYSTAT
*(0)
(0)
(0)
(0)
(0)
(1) 8/15 3 DAYSTAT

93259.01
93259.02
93259.03
93259.04
93259.05
93259.06
93259.07
93259.08
93259.09
93259.10
93259.11
93259.12
93259.13
93259.14
93259.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PACHECO
Date: 7/13/18 Time: 1600	Date: Time:	Date: 7/13/18 Time: 1800
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CHRISTIAN PACHECO	Printed Name:	Printed Name: Jean Claude
Date: 7/13/18 Time: 1600	Date: Time:	Date: 07/13/18 Time: 1800

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CHAIN OF CUSTODY RECORD

108740

AETL JOB No. 93259

Page 2 of 8

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2850 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE / FAX	909 989 4449
PROJECT NAME	David Starr Jordan Senior HS SSI
PROJECT #	LA5DL-32.7
SITE NAME AND ADDRESS	David Starr Jordan Senior HS SSI 2265 E. 103rd St, LA, CA 90002

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-45-G-18"		7/13/18	0820	Soil	Tube/Sleeve	Ice
2	SSI-45-G-36"			0822			
3	SSI-45-C-6"			0824			
4	SSI-45-C-18"			0826			
5	SSI-45-C-36"			0828			
6	SSI-45-A-6"			0829			
7	SSI-45-A-18"			0830			
8	SSI-45-A-36"			0831			
9	SSI-45-D-6"			0833			
10	SSI-45-D-18"			0834			
11	SSI-45-D-36"			0835			
12	SSI-45-B-6"			0840			
13	SSI-45-B-18"			0842			
14	SSI-45-B-36"			0844			
15	SSI-45-F-6"			0846			

ANALYSIS REQUESTED

EPA 6020 As
EPA 6020 Pb
6020 Pb
STLC/TCLP As
STLC/TCLP LEAD
HOLD

TEST INSTRUCTIONS & COMMENTS

*(5) - 7/19 3 DAYS
~~(2) 7/20 Normal~~ (HOLD)
(3) 7/27 3 DAYS
(6) 7/30 Normal
(1) 8/2 3 DAYS
+ (0) ⊕(0)

93259.16
93259.17
93259.18
93259.19
93259.20 HOLD
93259.21
93259.22
93259.23
93259.24
93259.25
93259.26
93259.27
93259.28
93259.29
93259.30

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature			
Printed Name	MIKE WATSON		C. PADILLA
Date / Time	7/13/18 1600		7/13/18 1800
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature			
Printed Name	CHRISTIAN PADILLA		Sean Lande
Date / Time	7/13/18 1600		07/13/18 1800

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CHAIN OF CUSTODY RECORD

108741

AETL JOB No. 93259

Page 3 of 8

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 3550 INLAND EMPIRE BL #B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS, 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-45-F-18"		7/13/18	0848	Soil	4 acetate sleeve	ice
2	SSI-45-F-36"			0850			
3	SSI-5-N-C-6"			0918			
4	SSI-5-N-C-18"			0920			
5	SSI-5-N-C-30"			0922			
6	SSI-5-N-G-6"			0924			
7	SSI-5-N-G-18"			0925			
8	SSI-5-N-G-30"			0926			
9	SSI-12-S/13-5-D-18"			0948			
10	SSI-12-S/13-5-D-36"			0950			
11	SSI-12-S/13-5-A-18"			0952			
12	DUP32						
13	SSI-12-S/13-5-A-36"			0954			
14	DUP33						
15	SSI-12-S/13-5-F-18"			0958			

ANALYSIS REQUESTED

EPA 6020 As	EPA 6020 Pb	Stic/Tcp Arsenic	Hold	TEST INSTRUCTIONS & COMMENTS
				(3) 7/19 3 DAYS TAT
				(0)
				(2) 7/27 3 DAYS TAT
				(1) 7/30 Normal
				(0)
				(0) (0)
			X	93259.31
			X	93259.32
X				93259.33
X				93259.34
			X	93259.35
*			X	93259.36
*			X	93259.37
			X	93259.38
*			X	93259.39
*			X	93259.40
X				93259.41
X				93259.42
*		*	X	93259.43
			X	93259.44
			X	93259.45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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☑ PDF
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PACHILLA
Date: 7/13/18 Time: 1600	Date: Time:	Date: 7/13/18 Time: 1800
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	Signature:	Signature:
Printed Name: CHRISTOPHER PACHILLA	Printed Name:	Printed Name:
Date: 7/13/18 Time: 1600	Date: Time:	Date: 07/13/18 Time: 1900

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CHAIN OF CUSTODY RECORD

108742

AETL JOB No. 93259

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS 2265 E. 103rd St, LA, CA 90002
PO #:

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS:
✱(1) 7/19 3 DAYS TAT
⊛(0)
⚠(1) 7/27 3 DAYS TAT
⊠(0)
◈(0)
+ (1) 8/7 3 DAYS TAT ⊕(0)

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6020 Pb	Hold	Test Instructions & Comments
1	SSI-12-5/13-S-F-36"		7/13/18	1000	soil	1 acetate sleeve	ice			X	93259.46
2	SSI-12-5/13-S-B-18"		↓	1002	↓	↓	↓	X			93259.47
3	SSI-12-5/13-S-B-36"			1003						X	93259.48
4	SSI-12-5/13-S-C-18"			1008				X			93259.49
5	SSI-12-5/13-S-C-36"			1010						X	93259.50
6	SSI-12-5/13-S-G-18"			1014						X	93259.51
7	SSI-12-5/13-S-G-36"			1016						X	93259.52
8	SSI-12-C-48"			1030						X	93259.53
9	SSI-12-C-60"			1032						X	93259.54
10	SSI-12-C-90"			1034				+		X	93259.55
11	SSI-12-C-120"			1036						X	93259.56
12	SSI-12-B-48"			1038				X			93259.57
13	SSI-12-B-60"			1040						X	93259.58
14	SSI-12-B-90"			1042				✱		X	93259.59
15	SSI-12-B-120"			1044				⚠		X	93259.60

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

RELINQUISHED BY SAMPLER: 1. Signature: [signature] Printed Name: MIKE WATSON Date: 7/13/18 Time: 1600
RECEIVED BY: 1. Signature: [signature] Printed Name: CHANGUN PAGMILAO Date: 7/13/18 Time: 1600

RELINQUISHED BY: 2. Signature: Printed Name: Date: Time:
RECEIVED BY: 2. Signature: Printed Name: Date: Time:

RELINQUISHED BY: 3. Signature: [signature] Printed Name: C. PAGMILAO Date: 7/13/18 Time: 1800
RECEIVED BY LABORATORY: 3. AETL Signature: [signature] Printed Name: Sean Clarke Date: 07/13/18 Time: 1800

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

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COOLER RECEIPT FORM

Client Name: Place work

Project Name:

AETL Job Number: 93259 & 93260

Date Received: 07/13/10 Received by: Jean Claude

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

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

Inside temperature of shipping container No 1: 2.9°C, No 2: _____, No 3: _____

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

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
☒ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

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

Explain all "No" answers for above questions:

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, July 20, 2018 10:16 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-13-2018
Attachments: image001.jpg; image002.jpg

Please run SSI-45-A-18" and SSI-45-B-6" for lead STLC and TCLP using a normal TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Wednesday, July 18, 2018 4:30 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-13-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93259 & 93260

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, July 26, 2018 5:16 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-18-2018
Attachments: image001.jpg; image003.jpg

Hi Jim,

Do not run SSI-45-G-6" for lead. We have deeper data that is already hot, so we can forgo analysis on that one.

In addition, please run the following for lead by EPA Method 6020 using a 3 day RUSH TAT:

SSI-45-G-36"

Please run the following for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-5-N-G-18"
SSI-7-N-C-42"
SSI-7-N-D-30"
SSI-7-N-F-30"
SSI-12-B-120"
SSI-12-S/13-S-D-36"
SSI-13-W-B-90"
SSI-45-C-18"
SSI-45-G-18"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: Mike Watson
PLACEWORKS
Sent: Thursday, July 26, 2018 4:32 PM
To: JIM LIN
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-18-2018

I'm not seeing SSI-46-G-6" for arsenic either. I wonder if they got mixed up.

Thanks,

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 9:17 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-18-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic STLC and TCLP using a normal TAT:

SSI-7-N-D-18"
SSI-12-S/13-S-A-36"
SSI-13-W-B-36"
SSI-13-W-B-60"
SSI-13-W-D-36"

Please run the following samples for lead STLC and TCLP using a normal TAT:

SSI-45-A-6"
SSI-45-A-18"
SSI-45-B-6"
SSI-45-C-36"
SSI-45-D-6"
SSI-45-G-18"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, July 26, 2018 4:06 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-18-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, August 2, 2018 1:15 PM
To: JIM LIN
Cc: Andrew Modugno (andrew.modugno@lausd.net)
Subject: Re: Summary Table Results of Samples from \David Starr Jordan Senior High School, Los Angeles, CA\ for samples additional requested on 07-25-2018

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-7-N-D-42"
SSI-13-W-B-120"
SSI-45-G-36"

Thanks,
-Mike

Get Outlook for Android

From: JIM LIN <jiml@aetlab.com>
Sent: Thursday, August 2, 2018 11:49:59 AM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-25-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93323

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 7, 2018 1:54 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: David Starr Jordan Senior HS
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-7-N-G-30"
SSI-10-C-48"
SSI-12-C-90"
SSI-13-W-D-60"
SSI-14-A-120"
SSI-14-G-120"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

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909.989.4449 | mwatson@placeworks.com | placeworks.com

PLACEWORKS

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 14, 2018 6:09 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 08-02-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Here's a list of missing data that I have not received yet (all for arsenic):

SSI-10-A-60"
SSI-14-S-B-36"
SSI-46-G-6"

Also the sample that I just requested a few minutes ago (SSI-13-W-D-120").

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, August 14, 2018 4:18 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 08-02-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93259

******I think we missed one to report to you.******

******Starting Tomorrow, we will start Finalizing the reports. Should you have any additions, please feel free to contact us.******

Thank you.

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 21, 2018 12:18 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: David Starr Jordan Senior HS Additional Analyses
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic STLC and TCLP using a normal TAT:
SSI-4-N-A-30"
SSI-7-30"
SSI-12-S/13-S-A-36" 93259.43
SSI-14-E-D-18"
SSI-30-S-24"

SEE 8/7/18 EMAIL

Please run SSI-56-6" for lead STLC and TCLP using a normal TAT.

Thank you,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

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909.989.4449 | mwatson@placeworks.com | placeworks.com

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Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/13/2018
Date Reported 07/18/2018

Job Number	Order Date	Client
93259	07/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 60 samples with the following specification on 07/13/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93259.01	SSI-46-G-6"	07/13/2018	Soil	1
93259.04	SSI-46-C-6"	07/13/2018	Soil	1
93259.05	SSI-46-C-18"	07/13/2018	Soil	1
93259.06	SSI-46-D-6"	07/13/2018	Soil	1
93259.08	SSI-46-A-6"	07/13/2018	Soil	1
93259.09	SSI-46-A-18"	07/13/2018	Soil	1
93259.11	SSI-46-B-6"	07/13/2018	Soil	1
93259.15	SSI-45-G-6"	07/13/2018	Soil	1
93259.33	SSI-5-N-C-6"	07/13/2018	Soil	1
93259.34	SSI-5-N-C-18"	07/13/2018	Soil	1
93259.36	SSI-5-N-G-6"	07/13/2018	Soil	1
93259.37	SSI-5-N-G-18"	07/13/2018	Soil	1
93259.39	SSI-12-S/13-S-D-18"	07/13/2018	Soil	1
93259.40	SSI-12-S/13-S-D-36"	07/13/2018	Soil	1
93259.41	SSI-12-S/13-S-A-18"	07/13/2018	Soil	1
93259.42	DUP32	07/13/2018	Soil	1
93259.47	SSI-12-S/13-S-B-18"	07/13/2018	Soil	1
93259.49	SSI-12-S/13-S-C-18"	07/13/2018	Soil	1
93259.55	SSI-12-C-90"	07/13/2018	Soil	1
93259.57	SSI-12-B-48"	07/13/2018	Soil	1

Continued

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Telephone: (310)670-9221
Attention: Mike Watson

Project ID: LASD1-32.7 **Date Received 07/13/2018** **Date Reported 07/18/2018**

Job Number	Order Date	Client
93259	07/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

93259.59	SSI-12-B-90"	07/13/2018	Soil			1
93259.60	SSI-12-B-120"	07/13/2018	Soil			1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***	
	(6020) ^ AS	07/16/2018	4	Rush	mg/Kg	
93259.02	SSI-46-G-18"	07/13/2018	Soil			1
93259.03	DUP30	07/13/2018	Soil			1
93259.07	SSI-46-D-18"	07/13/2018	Soil			1
93259.10	DUP31	07/13/2018	Soil			1
93259.12	SSI-46-B-18"	07/13/2018	Soil			1
93259.13	SSI-46-F-6"	07/13/2018	Soil			1
93259.14	SSI-46-F-18"	07/13/2018	Soil			1
93259.26	SSI-45-D-36"	07/13/2018	Soil			1
93259.29	SSI-45-B-36"	07/13/2018	Soil			1
93259.30	SSI-45-F-6"	07/13/2018	Soil			1
93259.31	SSI-45-F-18"	07/13/2018	Soil			1
93259.32	SSI-45-F-36"	07/13/2018	Soil			1
93259.35	SSI-5-N-C-30"	07/13/2018	Soil			1
93259.38	SSI-5-N-G-30"	07/13/2018	Soil			1
93259.44	DUP33	07/13/2018	Soil			1
93259.45	SSI-12-S/13-S-F-18 "	07/13/2018	Soil			1
93259.46	SSI-12-S/13-S-F-36 "	07/13/2018	Soil			1
93259.48	SSI-12-S/13-S-B-36 "	07/13/2018	Soil			1
93259.50	SSI-12-S/13-S-C-36 "	07/13/2018	Soil			1
93259.51	SSI-12-S/13-S-G-18 "	07/13/2018	Soil			1

Continued

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Ontario, CA 91764

Telephone: (310)670-9221
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/13/2018
Date Reported 07/18/2018

Job Number	Order Date	Client
93259	07/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

93259.52	SSI-12-S/13-S-G-36"	07/13/2018	Soil	1
93259.53	SSI-12-C-48"	07/13/2018	Soil	1
93259.54	SSI-12-C-60"	07/13/2018	Soil	1
93259.56	SSI-12-C-120"	07/13/2018	Soil	1
93259.58	SSI-12-B-60"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/16/2018	4	Rush	--

93259.16	SSI-45-G-18"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	07/16/2018	4	Rush	mg/L
(6010B-STLC) ^ STLC-PB	07/16/2018	4	Rush	mg/L
(6020) ^ AS	07/16/2018	4	Rush	mg/Kg
(6020) ^ PB	07/16/2018	4	Rush	mg/Kg

93259.17	SSI-45-G-36"	07/13/2018	Soil	1
93259.19	SSI-45-C-18"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/16/2018	4	Rush	mg/Kg
(6020) ^ PB	07/16/2018	4	Rush	mg/Kg

93259.18	SSI-45-C-6"	07/13/2018	Soil	1
93259.23	SSI-45-A-36"	07/13/2018	Soil	1
93259.25	SSI-45-D-18"	07/13/2018	Soil	1
93259.28	SSI-45-B-18"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	07/16/2018	4	Rush	mg/Kg

93259.20	SSI-45-C-36"	07/13/2018	Soil	1
93259.21	SSI-45-A-6"	07/13/2018	Soil	1
93259.24	SSI-45-D-6"	07/13/2018	Soil	1
93259.27	SSI-45-B-6"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	07/16/2018	4	Rush	mg/L

Continued

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91764**	**Project ID: LASD1-32.7** **Date Received 07/13/2018** **Date Reported 07/18/2018**
Telephone: (310)670-9221 **Attention: Mike Watson**	

Job Number	Order Date	Client
93259	07/13/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93259.27	SSI-45-B-6"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B-STLC) ^ STLC-PB	07/16/2018	4	Rush	mg/L
(6020) ^ PB	07/16/2018	4	Rush	mg/Kg

93259.22	SSI-45-A-18"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	07/16/2018	4	Rush	mg/L
(6020) ^ PB	07/16/2018	4	Rush	mg/Kg

93259.43	SSI-12-S/13-S-A-36 "	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/16/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/16/2018	4	Rush	mg/L
(6020) ^ AS	07/16/2018	4	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

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C1

Our Lab I.D.			Method Blank	93259.01			
Client Sample I.D.				SSI-46-G-6"			
Date Sampled				07/13/2018			
Date Prepared			08/16/2018	08/16/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/17/2018	08/17/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	7.04			

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **3**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C1

Our Lab I.D.			Method Blank	93259.04			
Client Sample I.D.				SSI-46-C-6"			
Date Sampled				07/13/2018			
Date Prepared			07/17/2018	07/17/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	12.8			

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attn: Mike Watson
Page: **4**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C13

Our Lab I.D.			Method Blank	93259.05	93259.06		
Client Sample I.D.				SSI-46-C-18"	SSI-46-D-6"		
Date Sampled				07/13/2018	07/13/2018		
Date Prepared			07/20/2018	07/20/2018	07/20/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/24/2018	07/24/2018	07/24/2018		
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	3.05	11.2		

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C1

Our Lab I.D.			93259.08				
Client Sample I.D.			SSI-46-A-6"				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	31.1				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C13

Our Lab I.D.			93259.09				
Client Sample I.D.			SSI-46-A-18"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.61				

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C1

Our Lab I.D.			93259.11				
Client Sample I.D.			SSI-46-B-6"				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	9.39				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C13

Our Lab I.D.			93259.15				
Client Sample I.D.			SSI-45-G-6"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	23.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			Method Blank	93259.16			
Client Sample I.D.				SSI-45-G-18"			
Date Sampled				07/13/2018			
Date Prepared			07/31/2018	07/31/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/01/2018	08/01/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	16.7			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C2

Our Lab I.D.			Method Blank	93259.17			
Client Sample I.D.				SSI-45-G-36"			
Date Sampled				07/13/2018			
Date Prepared			07/31/2018	07/31/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/01/2018	08/01/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	4.32			

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			93259.19				
Client Sample I.D.			SSI-45-C-18"				
Date Sampled			07/13/2018				
Date Prepared			07/31/2018				
Preparation Method			3050B				
Date Analyzed			08/01/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.50				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C1

Our Lab I.D.			93259.33				
Client Sample I.D.			SSI-5-N-C-6"				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	26.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C2

Our Lab I.D.			Method Blank	93259.34			
Client Sample I.D.				SSI-5-N-C-18 "			
Date Sampled				07/13/2018			
Date Prepared			07/17/2018	07/17/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	6.46			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C13

Our Lab I.D.			93259.36				
Client Sample I.D.			SSI-5-N-G-6"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	19.8				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			93259.37				
Client Sample I.D.			SSI-5-N-G-18 "				
Date Sampled			07/13/2018				
Date Prepared			07/31/2018				
Preparation Method			3050B				
Date Analyzed			08/01/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.32				

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C14

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C14

Our Lab I.D.			93259.39				
Client Sample I.D.			SSI-12-S/13-S-D-18"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	13.6				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			93259.40				
Client Sample I.D.			SSI-12-S/13-S-D-36"				
Date Sampled			07/13/2018				
Date Prepared			07/31/2018				
Preparation Method			3050B				
Date Analyzed			08/01/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.44				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C2

Our Lab I.D.			93259.41	93259.42			
Client Sample I.D.			SSI-12-S/13-S-A-18"	DUP32			
Date Sampled			07/13/2018	07/13/2018			
Date Prepared			07/17/2018	07/17/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	25.9	48.8			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C14

Our Lab I.D.			93259.43				
Client Sample I.D.			SSI-12-S/13-S-A-36"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	57.8				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C2

Our Lab I.D.			93259.47	93259.49			
Client Sample I.D.			SSI-12-S/13-S-B-18"	SSI-12-S/13-S-C-18"			
Date Sampled			07/13/2018	07/13/2018			
Date Prepared			07/17/2018	07/17/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	4.25	3.44			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			Method Blank	93259.55			
Client Sample I.D.				SSI-12-C-90"			
Date Sampled				07/13/2018			
Date Prepared			08/09/2018	08/09/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/10/2018	08/10/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	3.66			

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C2

Our Lab I.D.			93259.57				
Client Sample I.D.			SSI-12-B-48"				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	8.66				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C14

Our Lab I.D.			93259.59				
Client Sample I.D.			SSI-12-B-90"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	33.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			93259.60				
Client Sample I.D.			SSI-12-B-120 "				
Date Sampled			07/13/2018				
Date Prepared			07/31/2018				
Preparation Method			3050B				
Date Analyzed			08/01/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.28				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C13

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C13

Our Lab I.D.			93259.16				
Client Sample I.D.			SSI-45-G-18"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Lead	12	25	106				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0731181C1

Our Lab I.D.			Method Blank	93259.17			
Client Sample I.D.				SSI-45-G-36"			
Date Sampled				07/13/2018			
Date Prepared			07/31/2018	07/31/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/01/2018	08/01/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	ND	ND			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0717181C1

Our Lab I.D.			Method Blank	93259.18	93259.19		
Client Sample I.D.				SSI-45-C-6"	SSI-45-C-18"		
Date Sampled				07/13/2018	07/13/2018		
Date Prepared			07/17/2018	07/17/2018	07/17/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/18/2018	07/18/2018	07/18/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	0.25	0.50	ND	6.82	45.1		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C13

Our Lab I.D.			93259.20				
Client Sample I.D.			SSI-45-C-36"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Lead	12	25	186				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0717181C1

Our Lab I.D.			93259.21	93259.22			
Client Sample I.D.			SSI-45-A-6"	SSI-45-A-18"			
Date Sampled			07/13/2018	07/13/2018			
Date Prepared			07/17/2018	07/17/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	82.7	258			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C13

Our Lab I.D.			93259.23				
Client Sample I.D.			SSI-45-A-36"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	5.14				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C13

Our Lab I.D.			93259.24				
Client Sample I.D.			SSI-45-D-6"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	65.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C13

Our Lab I.D.			93259.25				
Client Sample I.D.			SSI-45-D-18"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	6.47				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0717181C1

Our Lab I.D.			93259.27	93259.28			
Client Sample I.D.			SSI-45-B-6"	SSI-45-B-18"			
Date Sampled			07/13/2018	07/13/2018			
Date Prepared			07/17/2018	07/17/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	64.5	4.32			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C11

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/24/2018				
Preparation Method			1311				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C11

Our Lab I.D.			93259.43				
Client Sample I.D.			SSI-12-S/13-S-A-36"				
Date Sampled			07/13/2018				
Date Prepared			08/01/2018				
Preparation Method			1311				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

Comment(s):
93259.43: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0801182C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/01/2018				
Preparation Method			1311				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0801182C4

Our Lab I.D.			93259.16	93259.20	93259.21	93259.22	93259.24
Client Sample I.D.			SSI-45-G-18"	SSI-45-C-36"	SSI-45-A-6"	SSI-45-A-18"	SSI-45-D-6"
Date Sampled			07/13/2018	07/13/2018	07/13/2018	07/13/2018	07/13/2018
Date Prepared			08/01/2018	08/01/2018	08/01/2018	08/01/2018	08/01/2018
Preparation Method			1311	1311	1311	1311	1311
Date Analyzed			08/03/2018	08/03/2018	08/03/2018	08/03/2018	08/03/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead (TCLP)	0.50	1.00	ND	ND	ND	ND	ND

Comment(s):
93259.16: Analyzed under dilution due to matrix interference 93259.20: Analyzed under dilution due to matrix interference 93259.21: Analyzed under dilution due to matrix interference 93259.22: Analyzed under dilution due to matrix interference 93259.24: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0801182C4

Our Lab I.D.			93259.27				
Client Sample I.D.			SSI-45-B-6"				
Date Sampled			07/13/2018				
Date Prepared			08/01/2018				
Preparation Method			1311				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.50	1.00	ND				

Comment(s):
93259.27: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C10

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/25/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C10

Our Lab I.D.			93259.43				
Client Sample I.D.			SSI-12-S/13-S-A-36"				
Date Sampled			07/13/2018				
Date Prepared			07/25/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	0.973J				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C8

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C8

Our Lab I.D.			93259.16	93259.20	93259.21	93259.24	93259.27
Client Sample I.D.			SSI-45-G-18"	SSI-45-C-36"	SSI-45-A-6"	SSI-45-D-6"	SSI-45-B-6"
Date Sampled			07/13/2018	07/13/2018	07/13/2018	07/13/2018	07/13/2018
Date Prepared			08/03/2018	08/03/2018	08/03/2018	08/03/2018	08/03/2018
Preparation Method			TITLE 22	TITLE 22	TITLE 22	TITLE 22	TITLE 22
Date Analyzed			08/06/2018	08/06/2018	08/06/2018	08/06/2018	08/06/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/L	mg/L	mg/L	mg/L	mg/L
Dilution Factor			10	10	10	10	10
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead (STLC)	0.50	1.00	5.96	11.3	4.33	2.09	1.15

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C11; Dup or Spiked Sample: 93259.20; LCS: Clean Sand; LCS Prepared: 07/24/2018; LCS Analyzed: 07/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0724182C11; Dup or Spiked Sample: 93259.20; LCS: Clean Sand; LCS Prepared: 07/24/2018; LCS Analyzed: 07/26/2018; 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 (TCLP)	**10.0**	**9.57**	**95.7**	**10.0**	**9.64**	**96.4**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0801182C4; Dup or Spiked Sample: 93259.20; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0801182C4; Dup or Spiked Sample: 93259.20; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; 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	
Lead (TCLP)	**10.0**	**9.08**	**90.8**	**10.0**	**8.96**	**89.6**	**1.33**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C10; Dup or Spiked Sample: 93237.24; LCS: Clean Sand; LCS Prepared: 07/25/2018; LCS Analyzed: 07/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0725182C10; Dup or Spiked Sample: 93237.24; LCS: Clean Sand; LCS Prepared: 07/25/2018; LCS Analyzed: 07/27/2018; 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**	**9.61**	**96.1**	**10.0**	**9.99**	**99.9**	**3.9**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C8; Dup or Spiked Sample: 93259.20; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**5.96**	**6.03**	**1.2**	**<20**						

QC Batch No: 0803182C8; Dup or Spiked Sample: 93259.20; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; 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	
Lead (STLC)	**10.0**	**8.49**	**84.9**	**10.0**	**8.72**	**87.2**	**2.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C1; Dup or Spiked Sample: 93259.04; LCS: Clean Sand; QC Prepared: 07/17/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**12.8**	**1.00**	**14.1 #**	**130**	**1.00**	**14.3 #**	**150**	**14.3**	**80-120**	**<15**

QC Batch No: 0717181C1; Dup or Spiked Sample: 93259.04; LCS: Clean Sand; QC Prepared: 07/17/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.03**	**103**	**1.00**	**0.985**	**98.5**	**4.5**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C2; Dup or Spiked Sample: 93259.34; LCS: Clean Sand; QC Prepared: 07/17/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**6.46**	**1.00**	**8.02 #**	**156**	**1.00**	**7.93 #**	**147**	**5.9**	**80-120**	**<15**

QC Batch No: 0717181C2; Dup or Spiked Sample: 93259.34; LCS: Clean Sand; QC Prepared: 07/17/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.980**	**98.0**	**1.00**	**1.02**	**102**	**4.0**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C13; Dup or Spiked Sample: 93259.05; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.05**	**1.00**	**3.33 #**	**28.0**	**1.00**	**3.33 #**	**28.0**	**<1**	**80-120**	**<15**

QC Batch No: 0720181C13; Dup or Spiked Sample: 93259.05; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.13**	**113**	**1.00**	**1.07**	**107**	**5.5**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C14; Dup or Spiked Sample: 93259.39; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**13.6**	**1.00**	**13.9 #**	**30.0**	**1.00**	**14.0 #**	**40.0**	**28.6**	**80-120**	**<15**

QC Batch No: 0720181C14; Dup or Spiked Sample: 93259.39; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.12**	**112**	**1.00**	**1.06**	**106**	**5.5**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**16.7**	**1.00**	**17.3 #**	**60.0**	**1.00**	**17.0 #**	**30.0**	**66.7**	**80-120**	**<15**

QC Batch No: 0731181C1; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.978**	**97.8**	**1.00**	**0.952**	**95.2**	**2.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C2; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**16.1**	**1.00**	**16.2 #**	**10.0**	**1.00**	**16.3 #**	**19.9**	**66.2**	**80-120**	**<15**

QC Batch No: 0731181C2; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.978**	**97.8**	**1.00**	**0.952**	**95.2**	**2.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5; Dup or Spiked Sample: 93283.05; LCS: Clean Sand; QC Prepared: 08/09/2018; QC Analyzed: 08/10/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.39**	**1.00**	**3.99 #**	**60.0**	**1.00**	**4.02 #**	**63.0**	**4.9**	**80-120**	**<15**

QC Batch No: 0809181C5; Dup or Spiked Sample: 93283.05; LCS: Clean Sand; QC Prepared: 08/09/2018; QC Analyzed: 08/10/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.951**	**95.1**	**1.00**	**0.993**	**99.3**	**4.3**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C1; Dup or Spiked Sample: 93596.07; LCS: Clean Sand; QC Prepared: 08/16/2018; QC Analyzed: 08/17/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**7.52**	**1.00**	**9.06 #**	**154**	**1.00**	**9.28 #**	**176**	**13.3**	**80-120**	**<15**

QC Batch No: 0816181C1; Dup or Spiked Sample: 93596.07; LCS: Clean Sand; QC Prepared: 08/16/2018; QC Analyzed: 08/17/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.997**	**99.7**	**1.00**	**0.871**	**87.1**	**13.5**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0717181C1; Dup or Spiked Sample: 93259.04; LCS: Clean Sand; QC Prepared: 07/17/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**20.0**	**1.00**	**20.8**	**80.1**	**1.00**	**21.1**	**110**	**31.5**	**75-125**	**<15**

QC Batch No: 0717181C1; Dup or Spiked Sample: 93259.04; LCS: Clean Sand; QC Prepared: 07/17/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.948**	**94.8**	**1.00**	**0.912**	**91.2**	**3.9**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **58**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C13; Dup or Spiked Sample: 93259.05; LCS: Clean Sand; LCS Prepared: 07/20/2018; LCS Analyzed: 07/24/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.965**	**96.5**	**1.00**	**0.960**	**96.0**	**<1**	**75-125**	**<15**	

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Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **59**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93259	07/13/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0731181C1; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**106**	**1.00**	**106 #**	**0.1**	**1.00**	**106 #**	**0.1**	**<1**	**75-125**	**<15**

QC Batch No: 0731181C1; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.950**	**95.0**	**1.00**	**0.938**	**93.8**	**1.3**	**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

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attention: Mike Watson

Number of Pages	**43**
Date Received	**07/13/2018**
Date Reported	**09/10/2018**

Job Number	Order Date	Client
93260	07/13/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 33 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108743

AETL JOB No. 93260

Page 5 of 8

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD #B ONTARIO CA 91764
PHONE: 909 989 4499
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDC-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6020 Pb	HOLD	TEST INSTRUCTIONS & COMMENTS
											* (2) - 7/19 3 DAYS
											◬ (6)
											✳ (0)
											❋ (0)
											+ (0)
											⊕ (0)
1	SSI-12-A-48"		7/13/18	1054	Soil	1 g state store	ice	X			93260.01
2	SSI-12-A-60"			1056						X	93260.02
3	SSI-12-A-90"			1058				*		X	93260.03
4	SSI-12-A-120"			1100						X	93260.04
5	SSI-12-90"			1108				X			93260.05
6	SSI-12-120"			1110				*		X	93260.06
7	SSI-12-150"			1112						X	93260.07
8	SSI-13-W-G-18"			1158						X	93260.08
9	SSI-13-W-G-36"			1200						X	93260.09
10	SSI-13-W-G-60"			1202						X	93260.10
11	SSI-13-W-G-90"			1204						X	93260.11
12	SSI-13-W-G-120"			1206						X	93260.12
13	SSI-13-W-C-18"			1208				X			93260.13
14	SSI-13-W-C-36"			1210				X			93260.14
15	SSI-13-W-C-60"			1212						X	93260.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		C. ROBINSON
Date: / Time:	7/13/18 1600		7/13/18 1800
	RECEIVED BY: 1.	RECEIVED BY: 2	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	CHARLESON PALMILAN		
Date: / Time:	7/13/18 1600		07/13/18 1800

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CHAIN OF CUSTODY RECORD

108744

AETL JOB No. 93260

Page 6 of 8

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2850 INLAND EMPIRE BLVD ONTARIO CA 91764
PHONE	909 989 4449
FAX	
PROJECT NAME	David Starr Jordan SHS SSI
PROJECT #	LASDI-32.7
SITE NAME AND ADDRESS	David Starr Jordan Senior HS 2265 E. 103rd St, LA, CA 90002
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-13-W-C-90"		7/13/18	1214	Soil	1 glass sleeve	ice
2	SSI-13-W-C-120"			1216			
3	SSI-13-W-B-18"			1224			
4	SSI-13-W-B-36"			1226			
5	SSI-13-W-B-60"			1228			
6	SSI-13-W-B-90"			1230			
7	SSI-13-W-B-120"			1232			
8	SSI-13-W-B-150"			1234			
9	SSI-13-W-F-18"			1238			
10	SSI-13-W-F-36"			1240			
11	SSI-13-W-F-60"			1242			
12	SSI-13-W-F-90"			1244			
13	SSI-13-W-F-120"			1246			
14	SSI-13-W-A-18"			1248			
15	SSI-13-W-A-36"			1250			

ANALYSIS REQUESTED

EPA 6020 As
EPA 6020 Pb
Stic/Icp Arsenic
HOLD

TEST INSTRUCTIONS & COMMENTS

*(2) 7/19 3 DAYS
(1) 7/27 3 DAYS
(2) 7/30 Normal
(1) 8/2 3 DAYS
+ (0)
⊕ (0)

93260.16	
93260.17	
93260.18	
93260.19	
93260.20	
93260.21	
93260.22	
93260.23	
93260.24	
93260.25	
93260.26	
93260.27	
93260.28	
93260.29	
93260.30	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY:	SAMPLER:		
Signature:			
Printed Name:	MIKE WATSON		C. MACMILLAN
Date:	7/13/18		7/13/18
Time:	1600		1800
RECEIVED BY:	1.	2.	3.
Signature:			
Printed Name:	C. MACMILLAN		
Date:	7/13/18		7/13/18
Time:	1600		1800
RECEIVED BY LABORATORY:			AETL

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

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CHAIN OF CUSTODY RECORD

108745

AETL JOB No. 93260 Page 7 of 8

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS 2265 E. 103rd St, LA, CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6020 Pb	Stockpile Arsenic	HOLD	TEST INSTRUCTIONS & COMMENTS
1	~~SSI-FW~~		7/13/18									
2	SSI-13-W-A-60"		7/13/18	1252	Soil	1 Encore Sleeve	ICE	*			X	93260.31
3	SSI-13-W-A-90"			1254							X	93260.32
4	SSI-13-W-A-120"			1256							X	93260.33
5	SSI-13-W-D-18"			1258							X	93260.34
6	SSI-13-W-D-36"			1300				*		⊠	X	93260.35
7	SSI-13-W-D-60"			1301				+			X	93260.36
8	SSI-13-W-D-90"			1303							X	93260.37
9	SSI-13-W-D-120"			1305				⊕			X	93260.38
10	SSI-13-W-90"			1315				X				93260.39
11	SSI-13-W-120"			1317							X	93260.40
12	SSI-13-W-150"			1319							X	93260.41
13	SSI-7-N-F-18"			1349				*			X	93260.42
14	SSI-7-N-F-30"			1350				⊛			X	93260.43
15	SSI-7-N-F-42"		↓	1352	↓	↓	↓				X	93260.44

TEST INSTRUCTIONS & COMMENTS:
* (3) 7/19 3 DAYS
⊛ (1) 7/27 3 DAYS
⊠ (1) 7/30 Normal
◈ (0)
+ (1) 8/7 3 DAYS
⊕ (1) 8/15 3 DAYS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS: 14
CUSTODY SEALS Y / N / NA
RECEIVED IN GOOD COND. Y / N
PROPERLY COOLED Y / N / NA
SAMPLES INTACT Y / N / NA
SAMPLES ACCEPTED Y / N

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	MIKE WATSON		
Printed Name:	MIKE WATSON		C. MACMILLAN
Date / Time:	7/13/18 1600		7/13/18 1800
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:			
Printed Name:	CHANTELLE PADILLA		Jean Claude
Date / Time:	7/13/18 1600		07/13/18 1800

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CHAIN OF CUSTODY RECORD

108746

AETL JOB No. 93260

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL #B ONTARIO, CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD 1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E 103rd St, LA, CA 90002
PO #:

ANALYSIS REQUESTED: EPA 6020 As; EPA 6020 Pb; STLC/TCLP Arsenic; Hold

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	EPA 6020 As	EPA 6020 Pb		STLC/TCLP Arsenic	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-7-N-B-18"		7/13/18	1353	Soil	Lace tube sleeve	ice	X					93260.45
2	SSI-7-N-B-30"		↓	1354	↓	↓	↓	*				X	93260.46
3	SSI-7-N-B-42"		↓	1355	↓	↓	↓					X	93260.47
4	SSI-7-N-C-18"		↓	1356	↓	↓	↓	X					93260.48
5	SSI-7-N-C-30"		↓	1357	↓	↓	↓	*				X	93260.49
6	SSI-7-N-C-42"		↓	1358	↓	↓	↓	⚠*				X	93260.50
7	SSI-7-N-G-18"		↓	1400	↓	↓	↓	*				X	93260.51
8	SSI-7-N-G-30"		↓	1401	↓	↓	↓	+				X	93260.52
9	SSI-7-N-G-42"		↓	1402	↓	↓	↓					X	93260.53
10	SSI-7-N-A-18"		↓	1404	↓	↓	↓	X					93260.54
11	SSI-7-N-A-30"		↓	1405	↓	↓	↓	*				X	93260.55
12	SSI-7-N-A-42"		↓	1406	↓	↓	↓					X	93260.56
13	SSI-7-N-D-18"		↓	1410	↓	↓	↓	*			⊠*	X	93260.57
14	SSI-7-N-D-30"		↓	1412	↓	↓	↓	⚠*				X	93260.58
15	SSI-7-N-D-42"		↓	1414	↓	↓	↓	❋				X	93260.59

TEST INSTRUCTIONS & COMMENTS:
*(5) 7/19 3DAYS
⚠*(2) 7/27 3DAYS
⊠*(1) 7/30 Normal
❋(1) 8/2 3DAYS
+(1) 8/7 3DAYS
⊕(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☒ PDF
☐ GEOTRACKER (GLOBAL ID) ______
☐ OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 7/13/18 Time: 1600	Signature: Printed Name: Date: Time:	Signature: [signature] Printed Name: C. KAGHILAS Date: 7/13/18 Time: 1800
RECEIVED BY	Signature: [signature] Printed Name: CHAMLIN PAGVILAS Date: 7/13/18 Time: 1600	Signature: Printed Name: Date: Time:	LABORATORY: AETL Signature: [signature] Printed Name: Jean Claude Date: 07/13/18 Time: 1800

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

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COOLER RECEIPT FORM

Client Name: Place work

Project Name:

AETL Job Number: 93259 & 93260

Date Received: 07/13/10 Received by: Jean Claude

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

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 2.9°C, No 2: _____, No 3: _____

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

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
X None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

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

Explain all "No" answers for above questions:

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 18, 2018 6:23 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-13-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please analyze the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-5-N-G-6"
SSI-7-N-A-30"
SSI-7-N-B-30"
SSI-7-N-C-30"
SSI-7-N-D-18"
SSI-7-N-F-18"
SSI-7-N-G-18"
SSI-12-120"
SSI-12-A-90"
SSI-12-B-90"
SSI-12-S/13-S-A-36"
SSI-12-S/13-S-D-18"
SSI-13-W-A-60"
SSI-13-W-B-60"
SSI-13-W-D-36"
SSI-13-W-F-36"
SSI-46-A-18"
SSI-46-C-18"
SSI-46-D-6"
SSI-46-G-6"

Please analyze the following samples for lead by EPA Method 6020 using a 3 day RUSH TAT:

SSI-45-A-36"
SSI-45-C-36"
SSI-45-D-6"
SSI-45-D-18"
SSI-45-G-18"

Thank you,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

PLACEWORKS
2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, July 26, 2018 5:16 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-18-2018
Attachments: image001.jpg; image003.jpg

Hi Jim,

Do not run SSI-45-G-6" for lead. We have deeper data that is already hot, so we can forgo analysis on that one.

In addition, please run the following for lead by EPA Method 6020 using a 3 day RUSH TAT:

SSI-45-G-36"

Please run the following for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-5-N-G-18"
SSI-7-N-C-42"
SSI-7-N-D-30"
SSI-7-N-F-30"
SSI-12-B-120"
SSI-12-S/13-S-D-36"
SSI-13-W-B-90"
SSI-45-C-18"
SSI-45-G-18"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: Mike Watson

PLACEWORKS

Sent: Thursday, July 26, 2018 4:32 PM
To: JIM LIN
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-18-2018

I'm not seeing SSI-46-G-6" for arsenic either. I wonder if they got mixed up.

Thanks,

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 9:17 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-18-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic STLC and TCLP using a normal TAT:

SSI-7-N-D-18"
SSI-12-S/13-S-A-36"
SSI-13-W-B-36"
SSI-13-W-B-60"
SSI-13-W-D-36"

Please run the following samples for lead STLC and TCLP using a normal TAT:

SSI-45-A-6"
SSI-45-A-18"
SSI-45-B-6"
SSI-45-C-36"
SSI-45-D-6"
SSI-45-G-18"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, July 26, 2018 4:06 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-18-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 7, 2018 1:54 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: David Starr Jordan Senior HS
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-7-N-G-30"
SSI-10-C-48"
SSI-12-C-90"
SSI-13-W-D-60"
SSI-14-A-120"
SSI-14-G-120"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

PLACEWORKS

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 14, 2018 6:01 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 08-07-2018
Attachments: image001.jpg; image002.jpg

Please run SSI-13-W-D-120" for arsenic by EPA Method 6020. Use a 3 day TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Monday, August 13, 2018 5:25 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 08-07-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93260

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

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Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/13/2018
Date Reported 07/18/2018

Job Number	Order Date	Client
93260	07/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 59 samples with the following specification on 07/13/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93260.01	SSI-12-A-48"	07/13/2018	Soil	1
93260.03	SSI-12-A-90"	07/13/2018	Soil	1
93260.05	SSI-12-90"	07/13/2018	Soil	1
93260.06	SSI-12-120"	07/13/2018	Soil	1
93260.13	SSI-13-W-C-18"	07/13/2018	Soil	1
93260.14	SSI-13-W-C-36"	07/13/2018	Soil	1
93260.18	SSI-13-W-B-18"	07/13/2018	Soil	1
93260.21	SSI-13-W-B-90"	07/13/2018	Soil	1
93260.22	SSI-13-W-B-120"	07/13/2018	Soil	1
93260.25	SSI-13-W-F-36"	07/13/2018	Soil	1
93260.29	SSI-13-W-A-18"	07/13/2018	Soil	1
93260.30	SSI-13-W-A-36"	07/13/2018	Soil	1
93260.31	SSI-13-W-A-60"	07/13/2018	Soil	1
93260.36	SSI-13-W-D-60"	07/13/2018	Soil	1
93260.38	SSI-13-W-D-120"	07/13/2018	Soil	1
93260.39	SSI-13-W-90"	07/13/2018	Soil	1
93260.42	SSI-7-N-F-18"	07/13/2018	Soil	1
93260.43	SSI-7-N-F-30"	07/13/2018	Soil	1
93260.45	SSI-7-N-B-18"	07/13/2018	Soil	1
93260.46	SSI-7-N-B-30"	07/13/2018	Soil	1
93260.48	SSI-7-N-C-18"	07/13/2018	Soil	1
93260.49	SSI-7-N-C-30"	07/13/2018	Soil	1
93260.50	SSI-7-N-C-42"	07/13/2018	Soil	1
93260.51	SSI-7-N-G-18"	07/13/2018	Soil	1

Continued

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Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/13/2018
Date Reported 07/18/2018

Job Number	Order Date	Client
93260	07/13/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93260.52	SSI-7-N-G-30"	07/13/2018	Soil			1
93260.54	SSI-7-N-A-18"	07/13/2018	Soil			1
93260.55	SSI-7-N-A-30"	07/13/2018	Soil			1
93260.58	SSI-7-N-D-30"	07/13/2018	Soil			1
93260.59	SSI-7-N-D-42"	07/13/2018	Soil			1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	07/16/2018	4	Rush	mg/Kg

93260.02	SSI-12-A-60"	07/13/2018	Soil			1
93260.04	SSI-12-A-120"	07/13/2018	Soil			1
93260.07	SSI-12-150"	07/13/2018	Soil			1
93260.08	SSI-13-W-G-18"	07/13/2018	Soil			1
93260.09	SSI-13-W-G-36"	07/13/2018	Soil			1
93260.10	SSI-13-W-G-60"	07/13/2018	Soil			1
93260.11	SSI-13-W-G-90"	07/13/2018	Soil			1
93260.12	SSI-13-W-G-120"	07/13/2018	Soil			1
93260.15	SSI-13-W-C-60"	07/13/2018	Soil			1
93260.16	SSI-13-W-C-90"	07/13/2018	Soil			1
93260.17	SSI-13-W-C-120"	07/13/2018	Soil			1
93260.23	SSI-13-W-B-150"	07/13/2018	Soil			1
93260.24	SSI-13-W-F-18"	07/13/2018	Soil			1
93260.26	SSI-13-W-F-60"	07/13/2018	Soil			1
93260.27	SSI-13-W-F-90"	07/13/2018	Soil			1
93260.28	SSI-13-W-F-120"	07/13/2018	Soil			1
93260.32	SSI-13-W-A-90"	07/13/2018	Soil			1
93260.33	SSI-13-W-A-120"	07/13/2018	Soil			1
93260.34	SSI-13-W-D-18"	07/13/2018	Soil			1
93260.37	SSI-13-W-D-90"	07/13/2018	Soil			1
93260.40	SSI-13-W-120"	07/13/2018	Soil			1
93260.41	SSI-13-W-150"	07/13/2018	Soil			1

Continued

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Telephone: (310)670-9221
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/13/2018
Date Reported 07/18/2018

Job Number	Order Date	Client
93260	07/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

93260.44	SSI-7-N-F-42"	07/13/2018	Soil	1
93260.47	SSI-7-N-B-42"	07/13/2018	Soil	1
93260.53	SSI-7-N-G-42"	07/13/2018	Soil	1
93260.56	SSI-7-N-A-42"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/16/2018	4	Rush	--

93260.19	SSI-13-W-B-36"	07/13/2018	Soil	1
93260.20	SSI-13-W-B-60"	07/13/2018	Soil	1
93260.35	SSI-13-W-D-36"	07/13/2018	Soil	1
93260.57	SSI-7-N-D-18"	07/13/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/16/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/16/2018	4	Rush	mg/L
(6020) ^ AS	07/16/2018	4	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

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ANALYTICAL RESULTS

Ordered By

Placeworks
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Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3

Our Lab I.D.			Method Blank	93260.01			
Client Sample I.D.				SSI-12-A-48"			
Date Sampled				07/13/2018			
Date Prepared			07/17/2018	07/17/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	2.67			

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ANALYTICAL RESULTS

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **3**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			Method Blank	93260.03			
Client Sample I.D.				SSI-12-A-90"			
Date Sampled				07/13/2018			
Date Prepared			07/20/2018	07/20/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/24/2018	07/24/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	2.84			

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3

Our Lab I.D.			93260.05				
Client Sample I.D.			SSI-12-90"				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	14.6				

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Attn: Mike Watson
Page: **5**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.06				
Client Sample I.D.			SSI-12-120"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.85				

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ANALYTICAL RESULTS

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3

Our Lab I.D.			93260.13	93260.14	93260.18	93260.19	
Client Sample I.D.			SSI-13-W-C-18"	SSI-13-W-C-36"	SSI-13-W-B-18"	SSI-13-W-B-36"	
Date Sampled			07/13/2018	07/13/2018	07/13/2018	07/13/2018	
Date Prepared			07/17/2018	07/17/2018	07/17/2018	07/17/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			07/18/2018	07/18/2018	07/18/2018	07/18/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	3.25	8.11	3.45	80.8	

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ANALYTICAL RESULTS

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **7**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.20				
Client Sample I.D.			SSI-13-W-B-60"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	55.8				

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ANALYTICAL RESULTS

Ordered By

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Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **8**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			Method Blank	93260.21			
Client Sample I.D.				SSI-13-W-B-90"			
Date Sampled				07/13/2018			
Date Prepared			07/31/2018	07/31/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/01/2018	08/01/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	16.9			

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ANALYTICAL RESULTS

Ordered By

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **9**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C2

Our Lab I.D.			Method Blank	93260.22			
Client Sample I.D.				SSI-13-W-B-120"			
Date Sampled				07/13/2018			
Date Prepared			08/06/2018	08/06/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/07/2018	08/07/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	1.69			

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.25				
Client Sample I.D.			SSI-13-W-F-3 6"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	6.30				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3

Our Lab I.D.			93260.29	93260.30			
Client Sample I.D.			SSI-13-W-A-18"	SSI-13-W-A-36"			
Date Sampled			07/13/2018	07/13/2018			
Date Prepared			07/17/2018	07/17/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	3.39	38.9			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.31				
Client Sample I.D.			SSI-13-W-A-60"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	6.71				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.35				
Client Sample I.D.			SSI-13-W-D-36"				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	127				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/09/2018				
Preparation Method			3050B				
Date Analyzed			08/10/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			93260.36				
Client Sample I.D.			SSI-13-W-D-60"				
Date Sampled			07/13/2018				
Date Prepared			08/09/2018				
Preparation Method			3050B				
Date Analyzed			08/10/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	44.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0820181C1

Our Lab I.D.			Method Blank	93260.38			
Client Sample I.D.				SSI-13-W-D-120"			
Date Sampled				07/13/2018			
Date Prepared			08/20/2018	08/20/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/21/2018	08/21/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	1.36			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3

Our Lab I.D.			93260.39				
Client Sample I.D.			SSI-13-W-90"				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.54				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.42				
Client Sample I.D.			SSI-7-N-F-18 "				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	24.8				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			93260.43				
Client Sample I.D.			SSI-7-N-F-30 "				
Date Sampled			07/13/2018				
Date Prepared			07/31/2018				
Preparation Method			3050B				
Date Analyzed			08/01/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.13				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3

Our Lab I.D.			93260.45				
Client Sample I.D.			SSI-7-N-B-18 "				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	38.7				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.46				
Client Sample I.D.			SSI-7-N-B-30 "				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	10.6				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3

Our Lab I.D.			93260.48				
Client Sample I.D.			SSI-7-N-C-18 "				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	41.4				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.49				
Client Sample I.D.			SSI-7-N-C-30 "				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	13.4				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			93260.50				
Client Sample I.D.			SSI-7-N-C-42 "				
Date Sampled			07/13/2018				
Date Prepared			07/31/2018				
Preparation Method			3050B				
Date Analyzed			08/01/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.64				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.51				
Client Sample I.D.			SSI-7-N-G-18 "				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	15.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			93260.52				
Client Sample I.D.			SSI-7-N-G-30 "				
Date Sampled			07/13/2018				
Date Prepared			08/09/2018				
Preparation Method			3050B				
Date Analyzed			08/10/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	11.7				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3

Our Lab I.D.			93260.54				
Client Sample I.D.			SSI-7-N-A-18 "				
Date Sampled			07/13/2018				
Date Prepared			07/17/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	12.0				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.55				
Client Sample I.D.			SSI-7-N-A-30 "				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.80				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15

Our Lab I.D.			93260.57				
Client Sample I.D.			SSI-7-N-D-18 "				
Date Sampled			07/13/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	105				

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			93260.58				
Client Sample I.D.			SSI-7-N-D-30 "				
Date Sampled			07/13/2018				
Date Prepared			07/31/2018				
Preparation Method			3050B				
Date Analyzed			08/01/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	31.6				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C2

Our Lab I.D.			93260.59				
Client Sample I.D.			SSI-7-N-D-42 "				
Date Sampled			07/13/2018				
Date Prepared			08/06/2018				
Preparation Method			3050B				
Date Analyzed			08/07/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	5.23				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0801182C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/01/2018				
Preparation Method			1311				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0801182C4

Our Lab I.D.			93260.19	93260.20	93260.35	93260.57	
Client Sample I.D.			SSI-13-W-B-36"	SSI-13-W-B-60"	SSI-13-W-D-36"	SSI-7-N-D-18"	
Date Sampled			07/13/2018	07/13/2018	07/13/2018	07/13/2018	
Date Prepared			08/01/2018	08/01/2018	08/01/2018	08/01/2018	
Preparation Method			1311	1311	1311	1311	
Date Analyzed			08/03/2018	08/03/2018	08/03/2018	08/03/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic (TCLP)	0.50	1.00	0.952J	ND	ND	1.42	

Comment(s):
93260.20: Analyzed under dilution due to matrix interference 93260.35: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C8

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C8

Our Lab I.D.			93260.19	93260.20	93260.35	93260.57	
Client Sample I.D.			SSI-13-W-B-36"	SSI-13-W-B-60"	SSI-13-W-D-36"	SSI-7-N-D-18"	
Date Sampled			07/13/2018	07/13/2018	07/13/2018	07/13/2018	
Date Prepared			08/03/2018	08/03/2018	08/03/2018	08/03/2018	
Preparation Method			TITLE 22	TITLE 22	TITLE 22	TITLE 22	
Date Analyzed			08/06/2018	08/06/2018	08/06/2018	08/06/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.50	1.00	3.59	1.09	2.38	6.37	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0801182C4; Dup or Spiked Sample: 93259.20; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0801182C4; Dup or Spiked Sample: 93259.20; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; 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 (TCLP)	**10.0**	**9.18**	**91.8**	**10.0**	**9.31**	**93.1**	**1.41**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C8; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0803182C8; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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**	**9.27**	**92.7**	**10.0**	**8.84**	**88.4**	**4.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0717181C3; Dup or Spiked Sample: 93260.01; LCS: Clean Sand; QC Prepared: 07/17/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**2.67**	**1.00**	**3.28 #**	**61.0**	**1.00**	**3.34 #**	**67.0**	**9.4**	**80-120**	**<15**

QC Batch No: 0717181C3; Dup or Spiked Sample: 93260.01; LCS: Clean Sand; QC Prepared: 07/17/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.973**	**97.3**	**1.00**	**1.01**	**101**	**3.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C15; Dup or Spiked Sample: 93260.03; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**2.84**	**1.00**	**3.21 #**	**37.0**	**1.00**	**3.17 #**	**33.0**	**11.4**	**80-120**	**<15**

QC Batch No: 0720181C15; Dup or Spiked Sample: 93260.03; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.12**	**112**	**1.00**	**1.04**	**104**	**7.4**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**16.7**	**1.00**	**17.3 #**	**60.0**	**1.00**	**17.0 #**	**30.0**	**66.7**	**80-120**	**<15**

QC Batch No: 0731181C1; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.978**	**97.8**	**1.00**	**0.952**	**95.2**	**2.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C2; Dup or Spiked Sample: 93517.01; LCS: Clean Sand; QC Prepared: 08/06/2018; QC Analyzed: 08/07/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**1.08**	**1.00**	**1.95**	**87.0**	**1.00**	**1.98**	**90.0**	**3.4**	**80-120**	**<15**

QC Batch No: 0806181C2; Dup or Spiked Sample: 93517.01; LCS: Clean Sand; QC Prepared: 08/06/2018; QC Analyzed: 08/07/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.974**	**97.4**	**1.00**	**0.975**	**97.5**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5; Dup or Spiked Sample: 93283.05; LCS: Clean Sand; QC Prepared: 08/09/2018; QC Analyzed: 08/10/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.39**	**1.00**	**3.99 #**	**60.0**	**1.00**	**4.02 #**	**63.0**	**4.88**	**80-120**	**<15**

QC Batch No: 0809181C5; Dup or Spiked Sample: 93283.05; LCS: Clean Sand; QC Prepared: 08/09/2018; QC Analyzed: 08/10/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.950**	**95.1**	**1.00**	**0.990**	**99.3**	**4.32**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS

AETL Job Number	Submitted	Client
93260	07/13/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0820181C1; Dup or Spiked Sample: 93260.38; LCS: Clean Sand; QC Prepared: 08/20/2018; QC Analyzed: 08/21/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**1.36**	**1.00**	**2.20**	**84.0**	**1.00**	**2.22**	**86.0**	**2.4**	**80-120**	**<15**

QC Batch No: 0820181C1; Dup or Spiked Sample: 93260.38; LCS: Clean Sand; QC Prepared: 08/20/2018; QC Analyzed: 08/21/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.02**	**102**	**1.00**	**1.02**	**102**	**<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

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**84**
Date Received	**07/16/2018**
Date Reported	**09/07/2018**

Job Number	Order Date	Client
93282	07/16/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 40 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

108747

AETL JOB No. 93282

Page 1 of 5

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2850 INLAND EMPIRE BL, SUITE B ONTARIO CA 91764
PHONE	909 989 4449
FAX	
PROJECT NAME	David Starr Jordan Senior HS SSI
PROJECT #	LAD1-32.7
SITE NAME AND ADDRESS	David Starr Jordan SHS 2265 E. 103rd St LA, CA 90002
PO #	

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As Pb	STLC/TCLP As	Hold	TEST INSTRUCTIONS & COMMENTS
1 SSI-15-F-6"		7/16/18	0740	Soil	Lucetate sleeve	ice	*		X	93282.01
2 SSI-15-F-18"			0742				*	(*)	X	93282.02
3 SSI-15-F-36"			0744						X	93282.03
4 SSI-15-F-48"			0746				*	(*)	X	93282.04
5 SSI-15-F-60"			0748						X	93282.05
6 SSI-15-F-90"			0750						X	93282.06
7 SSI-15-F-120"			0752				(*)		X	93282.07
8 SSI-15-C-6"			0754				X	*		93282.08
9 DUP34							X			93282.09
10 SSI-15-C-18"			0755				X X	*		93282.10
11 SSI-15-C-36"			0756				X	*		93282.11
12 SSI-15-C-48"			0757				X	*		93282.12
13 SSI-15-C-60"			0758				*	(*)	X	93282.13
14 DUP35									X	93282.14
15 SSI-15-C-90"		↓	0759	↓	↓	↓	*	(*)	X	93282.15

TEST INSTRUCTIONS & COMMENTS:
* (5 TOTAL) 7/20 3 DAYS
(4 STLC/TCLP) 7/20 Normal
(*) (1 TOTAL) 7/30 3 DAYS
(4 STLC/TCLP) 7/30 Normal
(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY:	SAMPLER:		
Signature:			
Printed Name:	MIKE WATSON		C. PADILLA
Date:	7/16/18	Time:	7/16/18 Time: 1740
RECEIVED BY:			
Signature:			
Printed Name:	CRISTIAN PADILLA		
Date:	7/16/18	Time: 1550	
RECEIVED BY LABORATORY:			ACTL
Signature:			
Printed Name:			Antin
Date:		Time:	7/16/18 Time: 1740

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

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CHAIN OF CUSTODY RECORD

108748

AETL JOB No. 93282

COMPANY: PLACEWORKS [?]
PROJECT MANAGER: MIKE LATTOW [?]
COMPANY ADDRESS: 2 [?] Inland Empire, Suite B [?], Ontario CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS [?]
PROJECT #: LAD-1327 [?]
SITE NAME AND ADDRESS: David Starr Jordan Senior HS, 2265 E. 103rd St LA CA 90002
PO #:

ANALYSIS REQUESTED: 6020 As | 6020 Pb | STLC/TCLP As | Hold

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	STLC/TCLP As	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-15-C-120"		7/16/18	0800	Soil	Locestak [?]	ice	⊛		Δ*	X	93282.16
2	SSI-15-D-6"		↓	0802	↓	↓	↓	*			X	93282.17
3	SSI-15-D-18"			0804							X	93282.18
4	SSI-15-D-36"			0806							X	93282.19
5	SSI-15-D-48"			0808				*			X	93282.20
6	SSI-15-D-60"			0809							X	93282.21
7	SSI-15-D-90"			0811							X	93282.22
8	SSI-15-D-120"			0813							X	93282.23
9	SSI-15-B-6"			0815				X				93282.24
10	SSI-15-B-18"			0817				X	X			93282.25
11	SSI-15-B-36"			0819				X				93282.26
12	SSI-15-B-48"			0821				X		*		93282.27
13	SSI-15-B-60"			0823				*			X	93282.28
14	SSI-15-B-90"			0825				*			X	93282.29
15	SSI-15-B-120"		↓	0827	↓	↓	↓				X	93282.30

TEST INSTRUCTIONS & COMMENTS:
* (4 TOTAL) 7/20 3 DAYS
(1 STLC/TCLP) 7/30 Normal
⊛ (1 TOTAL) 7/30 3 DAYS
Δ (1 STLC/TCLP) 8/3 Normal

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature]; Printed Name: Mike Lattow [?]; Date: 7/16/18; Time: 1550	Signature: —; Printed Name: —; Date: —; Time: —	Signature: [signature]; Printed Name: C. Padilla [?]; Date: 7/16/18; Time: 1740
RECEIVED BY	Signature: [signature]; Printed Name: C. Padilla [?]; Date: 7/16/18; Time: 1550	Signature: —; Printed Name: —; Date: —; Time: —	LABORATORY: AETL; Signature: —; Printed Name: Anti [?]; Date: 07/16/18; Time: 1740

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

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CHAIN OF CUSTODY RECORD

AETL JOB No. 93282 106401

Page 3 of 8

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD SUITE B ONTARIO CA 91764
PHONE: 909 989 4949
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LA001352.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St LA CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-1S-90"		7/16/18	0848	Soil	1 acetate liner	ICE
2	SSI-1S-120"			0850			
3	SSI-1S-150"			0852			
4	SSI-1S-A-6"			0854			
5	SSI-1S-A-18"			0856			
6	SSI-1S-A-36"			0858			
7	SSI-1S-A-48"			0900			
8	SSI-1S-A-60"			0902			
9	SSI-1S-A-90"			0904			
10	SSI-1S-A-120"			0906			
11	SSI-1A-G-48"			0924			
12	SSI-1A-G-60"			0926			
13	SSI-1A-G-90"			0928			
14	SSI-1A-G-120"			0930			
15	SSI-1A-C-48"			0934			

ANALYSIS REQUESTED

#	6020 AS	6020 PB	STLC/TCLP PB	STLC/TCLP AS	HOLD
1	X				
2	*				X
3	⊛				X
4	X				
5	X	X	*	*	
6	X	*		*	
7	X			*	
8	*			⊛	X
9	*			⊛	X
10	⊛				X
11	*			⊛	X
12					X
13	⊛			▲	X
14	▲				X
15	X			*	

TEST INSTRUCTIONS & COMMENTS

* (5x TOTAL) 7/20 3 DAYS
(3x STLC/TCLP) 7/20 Normal
⊛ (3 TOTAL) 7/30 3 DAYS
(3 STLC/TCLP) 7/30 Normal
▲ (1 TOTAL) 8/3 3 DAYS
(1 STLC/TCLP) 8/3 Normal

#	
1	93282.31
2	93282.32
3	93282.33
4	93282.34
5	93282.35
6	93282.36
7	93282.37
8	93282.38
9	93282.39
10	93282.40
11	93282.41
12	93282.42
13	93282.43
14	93282.44
15	93282.45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		
Date: / Time:	7/16/18 1550	/	7/16/18 1740
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:			
Date: / Time:	7/16/18 1550	/	7/16/18 1740

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CHAIN OF CUSTODY RECORD

106402

AETL JOB No. 93282

Page 4 of 8

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD #B ONTARIO CA 91764
PHONE: 909 989 4949
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LAS1132.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS 2265 E. 103rd St LA CA 90002
PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 SSI-14-C-60"		7/16/18	0936	Soil	1 x 4oz Jar	ice
2 SSI-14-C-90"			0938			
3 SSI-14-C-120"			0940			
4 SSI-14-F-48"			1128			
5 SSI-14-F-60"			1130			
6 SSI-14-F-90"			1132			
7 SSI-14-F-120"			1134			
8 SSI-14-B-48"			1140			
9 SSI-14-B-60"			1142			
10 SSI-14-B-90"			1144			
11 SSI-14-B-120"			1146			
12 SSI-14-90"			1156			
13 SSI-14-120"			1158			
14 SSI-14-150"			1200			
15 DUP 36						

ANALYSIS REQUESTED

6020 Pb	6020 Pb	STLC/TCLP AS	Hold
*		⊛	X
⊛		⊛*	X
⊛*			X
			X
			X
			X
			X
X			
			X
			X
			X
X			
			X
			X
X			

TEST INSTRUCTIONS & COMMENTS

*(1) 7/20 3 DAYS
⊛(1 TOTAL) 3 DAYS (1 STLC/TCLP) Normal
⊛*(1 TOTAL) 3 DAYS (1 STLC/TCLP) Normal

93282.46	
93282.47	
93282.48	
93282.49	
93282.50	
93282.51	
93282.52	
93282.53	
93282.54	
93282.55	
93282.56	
93282.57	
93282.58	
93282.59	
93282.60	

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		C. TRUJILLO
Date:	7/16/18		7/16/18
Time:	1550		1740
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	C. TRUJILLO		
Date:	7/16/18		07/16/18
Time:	1550		1740

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, July 19, 2018 7:08 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-14-A-60"
SSI-14-C-60"
SSI-14-D-48"
SSI-14-E-120"
SSI-14-E-A-60"
SSI-14-E-C-36"
SSI-14-E-C-48"
SSI-14-E-D-6"
SSI-14-G-48"
SSI-14-S-A-36"
SSI-14-S-C-36"
SSI-14-S-D-18"
SSI-14-S-G-18"
SSI-15-120"
SSI-15-A-60"
SSI-15-A-90"
SSI-15-B-60"
SSI-15-B-90"
SSI-15-C-60"
SSI-15-C-90"
SSI-15-D-6"
SSI-15-D-48"
SSI-15-F-6"
SSI-15-F-18"
SSI-15-F-48"

~~Also, please run SSI-15-A-18" for lead by EPA Method 6020 using a 3 day RUSH TAT.~~

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
PLACEWORKS
909.989.4449 | mwatson@placeworks.com | placeworks.com

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, July 20, 2018 10:22 AM
To: JIM LIN
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018
Attachments: image001.jpg; image002.jpg

Please run SSI-15-A-18" for lead STLC and TCLP using a normal TAT.

Please run SSI-14-A-48", SSI-14-C-48", SSI-15-A-18", SSI-15-A-36", SSI-15-A-48", SSI-15-B-48", SSI-15-C-6", SSI-15-C-18", SSI-15-C-36" and SSI-15-C-48" for arsenic STLC and TCLP using a normal TAT.

Thank you,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, July 19, 2018 4:42 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93282 & 93283

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, July 20, 2018 11:32 AM
To: JIM LIN
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018
Attachments: image001.jpg; image002.jpg; image004.jpg

Hi Jim,

My apologies, I meant to say to please run SSI-15-A-36" for lead by 6020 using a 3 day RUSH TAT.

Thank you,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, July 20, 2018 11:28 AM
To: Mike Watson
Cc: 'Modugno, Andrew'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018

Good Morning Mike,

Your request below for LEAD by 6020, on SSI-15A-18", was already reported.

Jim, AETL

From: Mike Watson [mailto:mwatson@placeworks.com]
Sent: Thursday, July 19, 2018 7:08 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-14-A-60"
SSI-14-C-60"

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 5:00 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-20-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-14-C-90"
SSI-14-G-90"
SSI-15-150"
SSI-15-A-120"
SSI-15-C-120"
SSI-15-F-120"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Monday, July 30, 2018 2:21 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-20-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93282

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 5:14 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-20-2018
Attachments: image001.jpg; image003.jpg; image004.jpg

Hi Jim,

In addition, please also run the following samples for arsenic STLC and TCLP using a normal TAT:

SSI-14-C-60"
SSI-14-G-48"
SSI-15-A-60"
SSI-15-A-90"
SSI-15-C-60"
SSI-15-C-90"
SSI-15-F-18"
SSI-15-F-48"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: Mike Watson

PLACEWORKS

Sent: Monday, July 30, 2018 5:00 PM
To: 'JIM LIN'
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-20-2018

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-14-C-90"
SSI-14-G-90"
SSI-15-150"
SSI-15-A-120"
SSI-15-C-120"

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, August 3, 2018 8:29 AM
To: JIM LIN
Cc: Andrew Modugno (andrew.modugno@lausd.net)
Subject: Re: Summary Table Results of Samples from \David Starr Jordan Senior High School, Los Angeles, CA\ for samples additional requested on 07-30-2018

Please run SSI-14-C-120" and SSI-14-G-120" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Please run SSI-14-C-90", SSI-14-G-90", SSI-15-C-120", and SSI-3-N-F-42" for arsenic STLC and TCLP using a normal TAT.

Thanks,
-Mike

Get Outlook for Android

From: JIM LIN <jiml@aetlab.com>
Sent: Thursday, August 2, 2018 11:54:19 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-30-2018

Dear Mike,
Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .
AETL Job No: 93325
Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

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COOLER RECEIPT FORM

Client Name: Place Works

Project Name:

AETL Job Number: 93282, 93283

Date Received: 07/16/18 Received by: Antia

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

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

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

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

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

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

_ Other (Specify):

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/16/2018
Date Reported 07/19/2018

Job Number	Order Date	Client
93282	07/16/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 60 samples with the following specification on 07/16/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93282.01	SSI-15-F-6"	07/16/2018	Soil	1
93282.07	SSI-15-F-120"	07/16/2018	Soil	1
93282.09	DUP34	07/16/2018	Soil	1
93282.17	SSI-15-D-6"	07/16/2018	Soil	1
93282.20	SSI-15-D-48"	07/16/2018	Soil	1
93282.24	SSI-15-B-6"	07/16/2018	Soil	1
93282.26	SSI-15-B-36"	07/16/2018	Soil	1
93282.28	SSI-15-B-60"	07/16/2018	Soil	1
93282.29	SSI-15-B-90"	07/16/2018	Soil	1
93282.31	SSI-15-90"	07/16/2018	Soil	1
93282.32	SSI-15-120"	07/16/2018	Soil	1
93282.33	SSI-15-150"	07/16/2018	Soil	1
93282.34	SSI-15-A-6"	07/16/2018	Soil	1
93282.40	SSI-15-A-120"	07/16/2018	Soil	1
93282.44	SSI-14-G-120"	07/16/2018	Soil	1
93282.48	SSI-14-C-120"	07/16/2018	Soil	1
93282.53	SSI-14-B-48"	07/16/2018	Soil	1
93282.57	SSI-14-90"	07/16/2018	Soil	1
93282.60	DUP36	07/16/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/19/2018	4	Rush	mg/Kg

93282.02	SSI-15-F-18"	07/16/2018	Soil	1
93282.04	SSI-15-F-48"	07/16/2018	Soil	1
93282.08	SSI-15-C-6"	07/16/2018	Soil	1
93282.11	SSI-15-C-36"	07/16/2018	Soil	1

Continued

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Date Received 07/16/2018
Date Reported 07/19/2018

Job Number	Order Date	Client
93282	07/16/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93282.12	SSI-15-C-48"	07/16/2018	Soil	1
93282.13	SSI-15-C-60"	07/16/2018	Soil	1
93282.15	SSI-15-C-90"	07/16/2018	Soil	1
93282.16	SSI-15-C-120"	07/16/2018	Soil	1
93282.27	SSI-15-B-48"	07/16/2018	Soil	1
93282.37	SSI-15-A-48"	07/16/2018	Soil	1
93282.38	SSI-15-A-60"	07/16/2018	Soil	1
93282.39	SSI-15-A-90"	07/16/2018	Soil	1
93282.41	SSI-14-G-48"	07/16/2018	Soil	1
93282.43	SSI-14-G-90"	07/16/2018	Soil	1
93282.45	SSI-14-C-48"	07/16/2018	Soil	1
93282.46	SSI-14-C-60"	07/16/2018	Soil	1
93282.47	SSI-14-C-90"	07/16/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/19/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/19/2018	4	Rush	mg/L
(6020) ^ AS	07/19/2018	4	Rush	mg/Kg

93282.03	SSI-15-F-36"	07/16/2018	Soil	1
93282.05	SSI-15-F-60"	07/16/2018	Soil	1
93282.06	SSI-15-F-90"	07/16/2018	Soil	1
93282.14	DUP35	07/16/2018	Soil	1
93282.18	SSI-15-D-18"	07/16/2018	Soil	1
93282.19	SSI-15-D-36"	07/16/2018	Soil	1
93282.21	SSI-15-D-60"	07/16/2018	Soil	1
93282.22	SSI-15-D-90"	07/16/2018	Soil	1
93282.23	SSI-15-D-120"	07/16/2018	Soil	1
93282.30	SSI-15-B-120"	07/16/2018	Soil	1
93282.42	SSI-14-G-60"	07/16/2018	Soil	1
93282.49	SSI-14-F-48"	07/16/2018	Soil	1

Continued

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Project ID: LASD1-32.7
Date Received 07/16/2018
Date Reported 07/19/2018

Job Number	Order Date	Client
93282	07/16/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93282.50	SSI-14-F-60"	07/16/2018	Soil	1
93282.51	SSI-14-F-90"	07/16/2018	Soil	1
93282.52	SSI-14-F-120"	07/16/2018	Soil	1
93282.54	SSI-14-B-60"	07/16/2018	Soil	1
93282.55	SSI-14-B-90"	07/16/2018	Soil	1
93282.56	SSI-14-B-120"	07/16/2018	Soil	1
93282.58	SSI-14-120"	07/16/2018	Soil	1
93282.59	SSI-14-150"	07/16/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/19/2018	4	Rush	--

93282.10	SSI-15-C-18"	07/16/2018	Soil	1
93282.36	SSI-15-A-36"	07/16/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/19/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/19/2018	4	Rush	mg/L
(6020) ^ AS	07/19/2018	4	Rush	mg/Kg
(6020) ^ PB	07/19/2018	4	Rush	mg/Kg

93282.25	SSI-15-B-18"	07/16/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/19/2018	4	Rush	mg/Kg
(6020) ^ PB	07/19/2018	4	Rush	mg/Kg

93282.35	SSI-15-A-18"	07/16/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/19/2018	4	Rush	mg/L
(6010/7000TCLP) ^ PB	07/19/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/19/2018	4	Rush	mg/L
(6010B-STLC) ^ STLC-PB	07/19/2018	4	Rush	mg/L
(6020) ^ AS	07/19/2018	4	Rush	mg/Kg
(6020) ^ PB	07/19/2018	4	Rush	mg/Kg

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Project ID: LASD1-32.7
Date Received 07/16/2018
Date Reported 07/19/2018

Job Number	Order Date	Client
93282	07/16/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C1

Our Lab I.D.			Method Blank	93282.01			
Client Sample I.D.				SSI-15-F-6"			
Date Sampled				07/16/2018			
Date Prepared			07/24/2018	07/24/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/25/2018	07/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	8.76			

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C1

Our Lab I.D.			93282.02	93282.04			
Client Sample I.D.			SSI-15-F-18"	SSI-15-F-48"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/24/2018	07/24/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/25/2018	07/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	89.1	107			

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			Method Blank	93282.07			
Client Sample I.D.				SSI-15-F-120 "			
Date Sampled				07/16/2018			
Date Prepared			08/01/2018	08/01/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/02/2018	08/02/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	3.32			

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Page: **6**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C1

Our Lab I.D.			93282.08	93282.09	93282.10	93282.11	93282.12
Client Sample I.D.			SSI-15-C-6"	DUP34	SSI-15-C-18"	SSI-15-C-36"	SSI-15-C-48"
Date Sampled			07/16/2018	07/16/2018	07/16/2018	07/16/2018	07/16/2018
Date Prepared			07/18/2018	07/18/2018	07/18/2018	07/18/2018	07/18/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/18/2018	07/18/2018	07/18/2018	07/18/2018	07/18/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			50	50	50	50	50
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	2.50	5	180	150	204	109	114

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Page: **7**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C1

Our Lab I.D.			93282.13	93282.15			
Client Sample I.D.			SSI-15-C-60"	SSI-15-C-90"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/24/2018	07/24/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/25/2018	07/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	50.9	60.6			

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **8**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Page: **9**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93282.16				
Client Sample I.D.			SSI-15-C-120 "				
Date Sampled			07/16/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	65.9				

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Page: **10**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C1

Our Lab I.D.			93282.17	93282.20			
Client Sample I.D.			SSI-15-D-6"	SSI-15-D-48"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/24/2018	07/24/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/25/2018	07/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	10.3	4.80			

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David Starr Jordan Senior HS
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Page: **11**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C1

Our Lab I.D.			93282.24				
Client Sample I.D.			SSI-15-B-6"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	32.4				

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C1

Our Lab I.D.			93282.25	93282.26			
Client Sample I.D.			SSI-15-B-18"	SSI-15-B-36"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/18/2018	07/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	8.86	11.7			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C1

Our Lab I.D.			93282.27				
Client Sample I.D.			SSI-15-B-48"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	54.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C1

Our Lab I.D.			93282.28				
Client Sample I.D.			SSI-15-B-60"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	41.4				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C1

Our Lab I.D.			93282.29				
Client Sample I.D.			SSI-15-B-90"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	5.09				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C1

Our Lab I.D.			93282.31				
Client Sample I.D.			SSI-15-90"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	44.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C1

Our Lab I.D.			93282.32				
Client Sample I.D.			SSI-15-120"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	17.7				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93282.33				
Client Sample I.D.			SSI-15-150"				
Date Sampled			07/16/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	6.18				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C2

Our Lab I.D.			93282.34				
Client Sample I.D.			SSI-15-A-6"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	42.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C2

Our Lab I.D.			93282.35	93282.36	93282.37		
Client Sample I.D.			SSI-15-A-18"	SSI-15-A-36"	SSI-15-A-48"		
Date Sampled			07/16/2018	07/16/2018	07/16/2018		
Date Prepared			07/18/2018	07/18/2018	07/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/18/2018	07/18/2018	07/18/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			50	50	50		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	2.50	5	118	109	57.8		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C2

Our Lab I.D.			93282.38	93282.39			
Client Sample I.D.			SSI-15-A-60"	SSI-15-A-90"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/24/2018	07/24/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/25/2018	07/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	63.5	53.5			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93282.40				
Client Sample I.D.			SSI-15-A-120 "				
Date Sampled			07/16/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	20.1				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C2

Our Lab I.D.			93282.41				
Client Sample I.D.			SSI-14-G-48"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	66.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93282.43				
Client Sample I.D.			SSI-14-G-90"				
Date Sampled			07/16/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	56.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C2

Our Lab I.D.			Method Blank	93282.44			
Client Sample I.D.				SSI-14-G-120 "			
Date Sampled				07/16/2018			
Date Prepared			08/06/2018	08/06/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/07/2018	08/07/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	14.1			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C2

Our Lab I.D.			93282.45				
Client Sample I.D.			SSI-14-C-48"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	94.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C2

Our Lab I.D.			93282.46				
Client Sample I.D.			SSI-14-C-60"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	81.8				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93282.47				
Client Sample I.D.			SSI-14-C-90"				
Date Sampled			07/16/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	61.8				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C2

Our Lab I.D.			93282.48				
Client Sample I.D.			SSI-14-C-120 "				
Date Sampled			07/16/2018				
Date Prepared			08/06/2018				
Preparation Method			3050B				
Date Analyzed			08/07/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	36.9				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C2

Our Lab I.D.			93282.53	93282.57			
Client Sample I.D.			SSI-14-B-48"	SSI-14-90"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/18/2018	07/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/18/2018	07/18/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	5.54	1.03			

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C2

Our Lab I.D.			93282.60				
Client Sample I.D.			DUP36				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	34.5				

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0718181C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0718181C1

Our Lab I.D.			93282.10				
Client Sample I.D.			SSI-15-C-18"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	11.8				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0718181C1

Our Lab I.D.			93282.25				
Client Sample I.D.			SSI-15-B-18"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	6.42				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0718181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0718181C2

Our Lab I.D.			93282.35				
Client Sample I.D.			SSI-15-A-18"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Lead	12	25	195				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0718181C1

Our Lab I.D.			93282.36				
Client Sample I.D.			SSI-15-A-36"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/18/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Lead	12	25	18.3				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/02/2018				
Preparation Method			1311				
Date Analyzed			08/04/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11

Our Lab I.D.			93282.02	93282.04			
Client Sample I.D.			SSI-15-F-18"	SSI-15-F-48"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			08/02/2018	08/02/2018			
Preparation Method			1311	1311			
Date Analyzed			08/04/2018	08/04/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic (TCLP)	0.50	1.00	0.604J	0.579J			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C12

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/24/2018				
Preparation Method			1311				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C12

Our Lab I.D.			93282.08	93282.10	93282.11	93282.12	
Client Sample I.D.			SSI-15-C-6"	SSI-15-C-18"	SSI-15-C-36"	SSI-15-C-48"	
Date Sampled			07/16/2018	07/16/2018	07/16/2018	07/16/2018	
Date Prepared			07/24/2018	07/24/2018	07/24/2018	07/24/2018	
Preparation Method			1311	1311	1311	1311	
Date Analyzed			07/26/2018	07/26/2018	07/26/2018	07/26/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic (TCLP)	0.50	1.00	ND	1.58	0.860J	0.695J	

Comment(s):
93282.08: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11

Our Lab I.D.			93282.13	93282.15			
Client Sample I.D.			SSI-15-C-60"	SSI-15-C-90"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			08/02/2018	08/02/2018			
Preparation Method			1311	1311			
Date Analyzed			08/04/2018	08/04/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic (TCLP)	0.50	1.00	ND	0.521J			

Comment(s):
93282.13: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			93282.16				
Client Sample I.D.			SSI-15-C-120 "				
Date Sampled			07/16/2018				
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

Comment(s):
93282.16: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C12

Our Lab I.D.			93282.27	93282.35	93282.36	93282.37	
Client Sample I.D.			SSI-15-B-48"	SSI-15-A-18"	SSI-15-A-36"	SSI-15-A-48"	
Date Sampled			07/16/2018	07/16/2018	07/16/2018	07/16/2018	
Date Prepared			07/24/2018	07/24/2018	07/24/2018	07/24/2018	
Preparation Method			1311	1311	1311	1311	
Date Analyzed			07/26/2018	07/26/2018	07/26/2018	07/26/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic (TCLP)	0.50	1.00	ND	2.48	ND	ND	

Comment(s):
93282.27: Analyzed under dilution due to matrix interference 93282.36: Analyzed under dilution due to matrix interference 93282.37: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11

Our Lab I.D.			93282.38	93282.39	93282.41		
Client Sample I.D.			SSI-15-A-60"	SSI-15-A-90"	SSI-14-G-48"		
Date Sampled			07/16/2018	07/16/2018	07/16/2018		
Date Prepared			08/02/2018	08/02/2018	08/02/2018		
Preparation Method			1311	1311	1311		
Date Analyzed			08/04/2018	08/04/2018	08/04/2018		
Matrix			Soil	Soil	Soil		
Units			mg/L	mg/L	mg/L		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic (TCLP)	0.50	1.00	ND	ND	ND		

Comment(s):
93282.38: Analyzed under dilution due to matrix interference 93282.39: Analyzed under dilution due to matrix interference 93282.41: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			93282.43				
Client Sample I.D.			SSI-14-G-90"				
Date Sampled			07/16/2018				
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

Comment(s):
93282.43: Analyzed under dilution due to matrix interference

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C12

Our Lab I.D.			93282.45				
Client Sample I.D.			SSI-14-C-48"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			1311				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

Comment(s):
93282.45: Analyzed under dilution due to matrix interference

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11

Our Lab I.D.			93282.46				
Client Sample I.D.			SSI-14-C-60"				
Date Sampled			07/16/2018				
Date Prepared			08/02/2018				
Preparation Method			1311				
Date Analyzed			08/04/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

Comment(s):
93282.46: Analyzed under dilution due to matrix interference

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			93282.47				
Client Sample I.D.			SSI-14-C-90"				
Date Sampled			07/16/2018				
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

Comment(s):
93282.47: Analyzed under dilution due to matrix interference

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2265 E. 103rd St.
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C12

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**07/24/2018**				
Preparation Method			**1311**				
Date Analyzed			**07/26/2018**				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	**0.05**	**0.10**	**ND**				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C12

Our Lab I.D.			93282.35				
Client Sample I.D.			SSI-15-A-18"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			1311				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.50	1.00	ND				

Comment(s):
93282.35: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/01/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			93282.02	93282.04			
Client Sample I.D.			SSI-15-F-18"	SSI-15-F-48"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			08/01/2018	08/01/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			08/03/2018	08/03/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	3.39	1.25			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/25/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C9

Our Lab I.D.			93282.08	93282.10	93282.11	93282.12	
Client Sample I.D.			SSI-15-C-6"	SSI-15-C-18"	SSI-15-C-36"	SSI-15-C-48"	
Date Sampled			07/16/2018	07/16/2018	07/16/2018	07/16/2018	
Date Prepared			07/25/2018	07/25/2018	07/25/2018	07/25/2018	
Preparation Method			TITLE 22	TITLE 22	TITLE 22	TITLE 22	
Date Analyzed			07/27/2018	07/27/2018	07/27/2018	07/27/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.50	1.00	2.19	9.64	4.98	4.54	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			93282.13	93282.15			
Client Sample I.D.			SSI-15-C-60"	SSI-15-C-90"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			08/01/2018	08/01/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			08/03/2018	08/03/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	2.15	1.75			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			93282.16				
Client Sample I.D.			SSI-15-C-120 "				
Date Sampled			07/16/2018				
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	1.02				

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C9

Our Lab I.D.			93282.27	93282.35	93282.36	93282.37	
Client Sample I.D.			SSI-15-B-48"	SSI-15-A-18"	SSI-15-A-36"	SSI-15-A-48"	
Date Sampled			07/16/2018	07/16/2018	07/16/2018	07/16/2018	
Date Prepared			07/25/2018	07/25/2018	07/25/2018	07/25/2018	
Preparation Method			TITLE 22	TITLE 22	TITLE 22	TITLE 22	
Date Analyzed			07/27/2018	07/27/2018	07/27/2018	07/27/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/L	mg/L	mg/L	mg/L	
Dilution Factor			10	10	10	10	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.50	1.00	1.98	10.6	5.52	2.12	

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			93282.38	93282.39	93282.41		
Client Sample I.D.			SSI-15-A-60"	SSI-15-A-90"	SSI-14-G-48"		
Date Sampled			07/16/2018	07/16/2018	07/16/2018		
Date Prepared			08/01/2018	08/01/2018	08/01/2018		
Preparation Method			TITLE 22	TITLE 22	TITLE 22		
Date Analyzed			08/03/2018	08/03/2018	08/03/2018		
Matrix			Soil	Soil	Soil		
Units			mg/L	mg/L	mg/L		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.50	1.00	2.09	2.04	2.83		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			93282.43				
Client Sample I.D.			SSI-14-G-90"				
Date Sampled			07/16/2018				
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	0.917				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C9

Our Lab I.D.			93282.45				
Client Sample I.D.			SSI-14-C-48"				
Date Sampled			07/16/2018				
Date Prepared			07/25/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	3.39				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			93282.46				
Client Sample I.D.			SSI-14-C-60"				
Date Sampled			07/16/2018				
Date Prepared			08/01/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	2.57				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			93282.47				
Client Sample I.D.			SSI-14-C-90"				
Date Sampled			07/16/2018				
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	2.05				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/25/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C9

Our Lab I.D.			93282.35				
Client Sample I.D.			SSI-15-A-18"				
Date Sampled			07/16/2018				
Date Prepared			07/25/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	8.32				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C12; Dup or Spiked Sample: 93282.10; LCS: Clean Sand; LCS Prepared: 07/24/2018; LCS Analyzed: 07/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**1.58**	**1.62**	**2.5**	**<20**						

QC Batch No: 0724182C12; Dup or Spiked Sample: 93282.10; LCS: Clean Sand; LCS Prepared: 07/24/2018; LCS Analyzed: 07/26/2018; 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 (TCLP)	**10.0**	**9.62**	**96.2**	**10.0**	**9.86**	**98.6**	**2.5**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11; Dup or Spiked Sample: 93282.02; LCS: Clean Sand; LCS Prepared: 08/02/2018; LCS Analyzed: 08/04/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**0.604**	**0.700**	**14.7**	**<20**						

QC Batch No: 0802182C11; Dup or Spiked Sample: 93282.02; LCS: Clean Sand; LCS Prepared: 08/02/2018; LCS Analyzed: 08/04/2018; 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 (TCLP)	**10.0**	**9.06**	**90.6**	**10.0**	**9.00**	**90.0**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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 (TCLP)	**10.0**	**9.55**	**95.5**	**10.0**	**9.16**	**91.6**	**4.17**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C12; LCS: Clean Sand; LCS Prepared: 07/24/2018; LCS Analyzed: 07/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0724182C12; LCS: Clean Sand; LCS Prepared: 07/24/2018; LCS Analyzed: 07/26/2018; 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	
Lead (TCLP)	**10.0**	**8.73**	**87.3**	**10.0**	**8.77**	**87.7**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C9; Dup or Spiked Sample: 93282.08; LCS: Clean Sand; LCS Prepared: 07/25/2018; LCS Analyzed: 07/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**2.19**	**2.39**	**8.7**	**<20**						

QC Batch No: 0725182C9; Dup or Spiked Sample: 93282.08; LCS: Clean Sand; LCS Prepared: 07/25/2018; LCS Analyzed: 07/27/2018; 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**	**10.1**	**101**	**10.0**	**10.1**	**101**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3; Dup or Spiked Sample: 93282.04; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**1.25**	**1.16**	**7.5**	**<20**						

QC Batch No: 0801182C3; Dup or Spiked Sample: 93282.04; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; 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**	**9.44**	**94.4**	**10.0**	**9.44**	**94.4**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**3.94**	**4.30**	**8.7**	**<20**						

QC Batch No: 0803182C9; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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**	**8.78**	**87.8**	**10.0**	**8.58**	**85.8**	**2.3**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C9; LCS: Clean Sand; LCS Prepared: 07/25/2018; LCS Analyzed: 07/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**4.25**	**4.60**	**7.9**	**<20**						

QC Batch No: 0725182C9; LCS: Clean Sand; LCS Prepared: 07/25/2018; LCS Analyzed: 07/27/2018; 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	
Lead (STLC)	**10.0**	**9.19**	**91.9**	**10.0**	**9.20**	**92.0**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C1; Dup or Spiked Sample: 93282.08; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**180**	**1.00**	**180 #**	**0.1**	**1.00**	**180 #**	**0.1**	**<1**	**80-120**	**<15**

QC Batch No: 0718181C1; Dup or Spiked Sample: 93282.08; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.04**	**104**	**1.00**	**1.05**	**105**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C2; Dup or Spiked Sample: 93282.34; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**38.4**	**1.00**	**38.4 #**	**0.1**	**1.00**	**38.4 #**	**0.1**	**<1**	**80-120**	**<15**

QC Batch No: 0718181C2; Dup or Spiked Sample: 93282.34; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.05**	**105**	**1.00**	**1.03**	**103**	**1.92**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C1; Dup or Spiked Sample: 93282.01; LCS: Clean Sand; QC Prepared: 07/24/2018; QC Analyzed: 07/25/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**8.76**	**1.00**	**8.88**	**12.0**	**1.00**	**9.10**	**34.0**	**95.7**	**80-120**	**<15**

QC Batch No: 0724181C1; Dup or Spiked Sample: 93282.01; LCS: Clean Sand; QC Prepared: 07/24/2018; QC Analyzed: 07/25/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.940**	**94.1**	**1.00**	**0.940**	**94.3**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C2; Dup or Spiked Sample: 93282.38; LCS: Clean Sand; QC Prepared: 07/24/2018; QC Analyzed: 07/25/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**63.5**	**1.00**	**66.2 #**	**270**	**1.00**	**67.1 #**	**360**	**28.6**	**80-120**	**<15**

QC Batch No: 0724181C2; Dup or Spiked Sample: 93282.38; LCS: Clean Sand; QC Prepared: 07/24/2018; QC Analyzed: 07/25/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.870**	**86.7**	**1.00**	**0.920**	**92.2**	**6.15**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.32**	**1.00**	**4.11**	**79.0**	**1.00**	**4.07**	**75.0**	**5.2**	**80-120**	**<15**

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.04**	**104**	**1.00**	**1.03**	**103**	**<1**	**80-120**	**<15**	

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AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C2; Dup or Spiked Sample: 93517.01; LCS: Clean Sand; QC Prepared: 08/06/2018; QC Analyzed: 08/07/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**1.08**	**1.00**	**1.95**	**87.0**	**1.00**	**1.98**	**90.0**	**3.4**	**80-120**	**<15**

QC Batch No: 0806181C2; Dup or Spiked Sample: 93517.01; LCS: Clean Sand; QC Prepared: 08/06/2018; QC Analyzed: 08/07/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.974**	**97.4**	**1.00**	**0.975**	**97.5**	**<1**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **83**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0718181C1; LCS: Clean Sand; LCS Prepared: 07/18/2018; LCS Analyzed: 07/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.919**	**91.9**	**1.00**	**0.927**	**92.7**	**<1**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson
Page: **84**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93282	07/16/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0718181C2; LCS: Clean Sand; LCS Prepared: 07/18/2018; LCS Analyzed: 07/18/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.964**	**96.4**	**1.00**	**0.981**	**98.1**	**1.7**	**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

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91264

Number of Pages	**60**
Date Received	**07/16/2018**
Date Reported	**09/07/2018**

Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
93283	07/16/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 38 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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CHAIN OF CUSTODY RECORD

106403

AETL JOB No. 93283

Page 5 of 8

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD, ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD-32.7
SITE NAME AND ADDRESS: Dana Starr Jordan SHS 2265 E. 103rd St LA CA 90002
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	STLC/TCLP As		Hold	TEST INSTRUCTIONS & COMMENTS
1 SSI-14-A-48"		7/16/18	1210	Soil	Lacetate sleeve	ice	X		✱	93283.01		SSI-14-A-48"
2 SSI-14-A-60"		↓	1212	↓	↓	↓	✱		△✱	93283.02	X	SSI-14-A-60"
3 DUP37										93283.03	X	[illegible]
4 SSI-14-A-90"			1214				△✱			93283.04	X	SSI-14-A-90"
5 SSI-14-A-120"			1216				⊠✱			93283.05	X	SSI-14-A-120"
6 SSI-14-D-48"			1220				✱		△✱	93283.06	X	SSI-14-D-48"
7 SSI-14-D-60"			1222							93283.07	X	SSI-14-D-60"
8 SSI-14-D-90"			1224				△✱			93283.08	X	SSI-14-D-90"
9 SSI-14-D-120"			1226				⊠✱			93283.09	X	SSI-14-D-120"
10 SSI-14-E-D-6"			1247				✱			93283.10	X	
11 SSI-14-ED-18"			1248				△✱		⊕	93283.11	X	
12 SSI-14-ED-36"			1249							93283.12	X	
13 SSI-14-ED-48"			1250							93283.13	X	
14 SSI-14-ED-60"			1251							93283.14	X	
15 SSI-14-ED-90"		↓	1253	↓	↓	↓				93283.15	X	

TEST INSTRUCTIONS & COMMENTS:
✱ (3 TOTAL) 7/20 3 DAYS
(1 STLC/TCLP) 7/20 Normal
⊛ (0)
△ (3) TOTAL 8/1 3DAY
(2) STLC/TCLP 8/1 Normal
⊠ (2) 8/7 3DAYS
+ (0) ⊕ (1) 8/21

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☒ PDF
☐ GEOTRACKER (GLOBAL ID) ________
☐ OTHER (PLEASE SPECIFY) ________

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 7/16/18 Time: 1550	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: C. PADILLA Date: 7/16/18 Time: 1740
RECEIVED BY	RECEIVED BY: Signature: [signature] Printed Name: CHARLTON PADILLA Date: 7/16/18 Time: 1550	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: Printed Name: Antin Date: 07/16/18 Time: 1740

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

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CHAIN OF CUSTODY RECORD

106404

AETL JOB No. 93283

Page 6 of 8

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St LA CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-14-E-D-120"		7/16/18	1255	Soil	1 acetate jar	ice
2	SSI-14-E-B-6"			1300			
3	SSI-14-E-B-18"			1301			
4	SSI-14-E-B-36"			1302			
5	SSI-14-E-B-48"			1303			
6	SSI-14-E-B-60"			1304			
7	SSI-14-E-B-90"			1305			
8	SSI-14-E-B-120"			1306			
9	SSI-14-E-90"			1320			
10	SSI-14-E-120"			1322			
11	SSI-14-E-150"			1324			
12	SSI-14-E-A-6"			1328			
13	SSI-14-E-A-18"			1329			
14	SSI-14-E-A-36"			1330			
15	SSI-14-E-A-48"			1331			

ANALYSIS REQUESTED

6020 Pb
6020 As
Hold

TEST INSTRUCTIONS & COMMENTS

*(1) 7/20 3DAYS
*(0)
*(0)
*(1) 8/7 3DAYS
+(0)
⊕(0)

93283.16
93283.17
93283.18
93283.19
93283.20
93283.21
93283.22
93283.23
93283.24
93283.25
93283.26
93283.27
93283.28
93283.29
93283.30

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER: / RELINQUISHED BY: / RELINQUISHED BY:	Signature:	Signature:	Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name:
	Date: 7/16/18 Time: 1550	Date: Time:	Date: 7/16/18 Time: 1740
RECEIVED BY: / RECEIVED BY: / RECEIVED BY LABORATORY:	Signature:	Signature:	Signature:
	Printed Name: CHANDLER RAMIREZ	Printed Name:	Printed Name: Andi
	Date: 7/16/18 Time: 1550	Date: Time:	Date: 07/16/18 Time: 1740

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

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CHAIN OF CUSTODY RECORD

106405

AETL JOB No. 93283

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E 103rd St, LA CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	STLC/TCLP As	Hold	
1	SSI-14-E-A-60"		7/16/18	1332	Soil	Injected [illegible]	ice	✳			X	93283.31
2	SSI-14-E-A-90"		↓	1334	↓	↓	↓				X	93283.32
3	SSI-14-E-A-120"			1336							X	93283.33
4	SSI-14-E-C-6"			1342							X	93283.34
5	SSI-14-E-C-18"			1343							X	93283.35
6	SSI-14-E-C-36"			1344				✳			X	93283.36
7	SSI-14-E-C-48"			1345				✳			X	93283.37
8	SSI-14-E-C-60"			1346				△			X	93283.38
9	SSI-14-E-C-90"			1348							X	93283.39
10	SSI-14-E-C-120"			1350				⊠			X	93283.40
11	SSI-14-S-F-18"			1422				⊛		△	X	93283.41
12	SSI-14-S-F-36"			1424				△			X	93283.42
13	SSI-14-S-F-48"			1426				⊠			X	93283.43
14	SSI-14-SB-18"			1428				X				93283.44
15	SSI-14-SB-36"		↓	1430	↓	↓	↓	+			X	93283.45

TEST INSTRUCTIONS & COMMENTS
✳ (3) 7/20 3DAYS
⊛ (1) 7/25 3DAYS
△ (2) TOTAL 8/1 3 DAYS
(1) STLC/TCLP 8/1 Normal
⊠ (2) 8/7 3DAYS
+ (1) 8/15 3 DAYS
⊕ (0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☒ PDF
☐ GEOTRACKER (GLOBAL ID) ______
☐ OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY	RELINQUISHED BY SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 7/16/18 Time: 1550	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: C. Padilla Date: 7/16/18 Time: 1740
RECEIVED BY	RECEIVED BY: Signature: [signature] Printed Name: Charlton Padilla Date: 7/16/18 Time: 1550	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: Printed Name: Antin Date: 07/16/18 Time: 1740

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

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CHAIN OF CUSTODY RECORD

106406

AETL JOB No. 93283

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 3850 INLAND EMPIRE BL, SUITE B, ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E 103rd St, LA, CA 90002
PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 SSI-14-S-B-48"		7/16/18	1432	Soil	1 acetate sleeve	ice
2 SSI-14-S-C-18"			1434			
3 SSI-14-S-C-36"			1436			
4 SSI-14-S-C-48"			1438			
5 SSI-14-S-G-18"			1440			
6 SSI-14-S-G-36"			1442			
7 SSI-14-S-G-48"			1444			
8 SSI-14-S-A-18"			1446			
9 DUP 38						
10 SSI-14-S-A-36"			1448			
11 DUP 39						
12 SSI-14-S-A-48"			1450			
13 SSI-14-S-D-18"			1452			
14 SSI-14-S-D-36"			1454			
15 SSI-14-S-D-48"			1456			

ANALYSIS REQUESTED

6020 As	6020 Pb	HOLD
		X
X		
*		X
		X
*		X
⁂		X
		X
X		
X		
*		X
		X
		X
*		X
		X
		X

TEST INSTRUCTIONS & COMMENTS

*(4) 7/20 3DAYS
⊛(0)
⁂(1) TOTAL 3 DAYS
✱(0)
+(0)
⊕(0)

93283.46
93283.47
93283.48
93283.49
93283.50
93283.51
93283.52
93283.53
93283.54
93283.55
93283.56
93283.57
93283.58
93283.59
93283.60

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PALMERO
Date: 7/16/18 Time: 1550	Date: Time:	Date: 7/16/18 Time: 1740
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** AETL 3.
Signature:	Signature:	Signature:
Printed Name: CHARLTON PALMERO	Printed Name:	Printed Name:
Date: 7/16/18 Time: 1550	Date: Time:	Date: 7/16/18 Time: 1740

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, July 19, 2018 7:08 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-14-A-60"
SSI-14-C-60"
SSI-14-D-48"
SSI-14-E-120"
SSI-14-E-A-60"
SSI-14-E-C-36"
SSI-14-E-C-48"
SSI-14-E-D-6"
SSI-14-G-48"
SSI-14-S-A-36"
SSI-14-S-C-36"
SSI-14-S-D-18"
SSI-14-S-G-18"
SSI-15-120"
SSI-15-A-60"
SSI-15-A-90"
SSI-15-B-60"
SSI-15-B-90"
SSI-15-C-60"
SSI-15-C-90"
SSI-15-D-6"
SSI-15-D-48"
SSI-15-F-6"
SSI-15-F-18"
SSI-15-F-48"

~~Also, please run SSI-15-A-18" for lead by EPA Method 6020 using a 3 day RUSH TAT.~~

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
PLACEWORKS
909.989.4449 | mwatson@placeworks.com | placeworks.com

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, July 20, 2018 10:22 AM
To: JIM LIN
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018
Attachments: image001.jpg; image002.jpg

Please run SSI-15-A-18" for lead STLC and TCLP using a normal TAT.

Please run SSI-14-A-48", SSI-14-C-48", SSI-15-A-18", SSI-15-A-36", SSI-15-A-48", SSI-15-B-48", SSI-15-C-6", SSI-15-C-18", SSI-15-C-36" and SSI-15-C-48" for arsenic STLC and TCLP using a normal TAT.

Thank you,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, July 19, 2018 4:42 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93282 & 93283

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 25, 2018 11:17 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018
Attachments: image001.jpg; image003.jpg

Follow Up Flag: Follow up
Flag Status: Flagged

Please also run SSI-14-S-F-18" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,
-Mike

From: Mike Watson
Sent: Thursday, July 19, 2018 7:08 PM
To: 'JIM LIN'
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-14-A-60"
SSI-14-C-60"
SSI-14-D-48"
SSI-14-E-120"
SSI-14-E-A-60"
SSI-14-E-C-36"
SSI-14-E-C-48"
SSI-14-E-D-6"
SSI-14-G-48"
SSI-14-S-A-36"
SSI-14-S-C-36"
SSI-14-S-D-18"
SSI-14-S-G-18"
SSI-15-120"
SSI-15-A-60"
SSI-15-A-90"
SSI-15-B-60"
SSI-15-B-90"
SSI-15-C-60"
SSI-15-C-90"
SSI-15-D-6"
SSI-15-D-48"
SSI-15-F-6"
SSI-15-F-18"

SSI-15-F-48"

Also, please run SSI-15-A-18" for lead by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Thursday, July 19, 2018 4:42 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-16-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93282 & 93283

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, August 1, 2018 2:27 PM
To: JIM LIN
Cc: Andrew Modugno (andrew.modugno@lausd.net)
Subject: Re: Summary Table Results of Samples from \David Starr Jordan Senior High School, Los Angeles, CA\ for samples additional requested on 07-24-2018

Hi Jim,

This is in regard to the results from yesterday. There were two typos noted in the results. SSI-32-D-6" and SSI-32-D-18" both had an extra A added to them.

Please run the following samples for arsenic by EPA 6020 using a 3 day RUSH TAT:
SSI-14-A-90"
SSI-14-D-90"
SSI-14-S-F-36"
SSI-14-E-C-60"
SSI-14-E-D-18"
SSI-14-S-G-36"
SSI-31-N-F-24"
SSI-31-N-D-24"
SSI-32-D-36"

Please run SSI-32-B-36" for lead by Method 6020 using a 3 day RUSH TAT.

Please run the following samples for arsenic STLC and TCLP using a normal TAT:
SSI-14-A-60"
SSI-14-D-48"
SSI-14-S-F-18"
SSI-31-N-F-6"

Please run SSI-32-B-18" and ~~SSI-34-C-6" for lead STLC and TCLP~~ using a normal TAT.

Thanks,
-Mike

Get Outlook for Android

From: JIM LIN <jiml@aetlab.com>
Sent: Wednesday, August 1, 2018 1:39:17 AM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Dear Mike,
Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .
AETL Job No: 93347
Thank you.

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 7, 2018 1:49 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 08-01-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 using a RUSH 3 day TAT:

SSI-14-A-120"
SSI-14-D-120"
SSI-14-E-C-120"
SSI-14-E-D-120"
SSI-14-S-F-48"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, August 07, 2018 1:16 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 08-01-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93283

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 14, 2018 6:09 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 08-02-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Here's a list of missing data that I have not received yet (all for arsenic):

SSI-10-A-60"
SSI-14-S-B-36"
SSI-46-G-6"

Also the sample that I just requested a few minutes ago (SSI-13-W-D-120").

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, August 14, 2018 4:18 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 08-02-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93259

******I think we missed one to report to you.******

******Starting Tomorrow, we will start Finalizing the reports. Should you have any additions, please feel free to contact us.******

Thank you.

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 21, 2018 12:18 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: David Starr Jordan Senior HS Additional Analyses
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic STLC and TCLP using a normal TAT:
SSI-4-N-A-30"
SSI-7-30"
SSI-12-S/13-S-A-36"
SSI-14-E-D-18"
SSI-30-S-24"

Please run SSI-56-6" for lead STLC and TCLP using a normal TAT.

Thank you,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

PLACEWORKS

American Environmental Testing Laboratory Inc.

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

COOLER RECEIPT FORM

Client Name: Place Works

Project Name:

AETL Job Number: 93282, 93283

Date Received: 07/16/18 Received by: Antin

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

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

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

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

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

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

_ Other (Specify):

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/16/2018
Date Reported 07/19/2018

Job Number	Order Date	Client
93283	07/16/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 60 samples with the following specification on 07/16/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93283.01	SSI-14-A-48"	07/16/2018	Soil	1
93283.02	SSI-14-A-60"	07/16/2018	Soil	1
93283.06	SSI-14-D-48"	07/16/2018	Soil	1
93283.11	SSI-14-E-D-18"	07/16/2018	Soil	1
93283.41	SSI-14-S-F-18"	07/16/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/19/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/19/2018	4	Rush	mg/L
(6020) ^ AS	07/19/2018	4	Rush	mg/Kg

93283.03	DUP37	07/16/2018	Soil	1
93283.07	SSI-14-D-60"	07/16/2018	Soil	1
93283.12	SSI-14-E-D-36"	07/16/2018	Soil	1
93283.13	SSI-14-E-D-48"	07/16/2018	Soil	1
93283.14	SSI-14-E-D-60"	07/16/2018	Soil	1
93283.15	SSI-14-E-D-90"	07/16/2018	Soil	1
93283.21	SSI-14-E-B-60"	07/16/2018	Soil	1
93283.22	SSI-14-E-B-90"	07/16/2018	Soil	1
93283.23	SSI-14-E-B-120"	07/16/2018	Soil	1
93283.26	SSI-14-E-150"	07/16/2018	Soil	1
93283.32	SSI-14-E-A-90"	07/16/2018	Soil	1
93283.33	SSI-14-E-A-120"	07/16/2018	Soil	1
93283.34	SSI-14-E-C-6"	07/16/2018	Soil	1
93283.35	SSI-14-E-C-18"	07/16/2018	Soil	1
93283.39	SSI-14-E-C-90"	07/16/2018	Soil	1
93283.46	SSI-14-S-B-48"	07/16/2018	Soil	1

Continued

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/16/2018
Date Reported 07/19/2018

Job Number	Order Date	Client
93283	07/16/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93283.49	SSI-14-S-C-48"	07/16/2018	Soil	1
93283.52	SSI-14-S-G-48"	07/16/2018	Soil	1
93283.56	DUP39	07/16/2018	Soil	1
93283.57	SSI-14-S-A-48"	07/16/2018	Soil	1
93283.59	SSI-14-S-D-36"	07/16/2018	Soil	1
93283.60	SSI-14-S-D-48"	07/16/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/19/2018	4	Rush	--

93283.04	SSI-14-A-90"	07/16/2018	Soil	1
93283.05	SSI-14-A-120"	07/16/2018	Soil	1
93283.08	SSI-14-D-90"	07/16/2018	Soil	1
93283.09	SSI-14-D-120"	07/16/2018	Soil	1
93283.10	SSI-14-E-D-6"	07/16/2018	Soil	1
93283.16	SSI-14-E-D-120"	07/16/2018	Soil	1
93283.17	SSI-14-E-B-6"	07/16/2018	Soil	1
93283.18	SSI-14-E-B-18"	07/16/2018	Soil	1
93283.19	SSI-14-E-B-36"	07/16/2018	Soil	1
93283.20	SSI-14-E-B-48"	07/16/2018	Soil	1
93283.24	SSI-14-E-90"	07/16/2018	Soil	1
93283.25	SSI-14-E-120"	07/16/2018	Soil	1
93283.27	SSI-14-E-A-6"	07/16/2018	Soil	1
93283.28	SSI-14-E-A-18"	07/16/2018	Soil	1
93283.29	SSI-14-E-A-36"	07/16/2018	Soil	1
93283.30	SSI-14-E-A-48"	07/16/2018	Soil	1
93283.31	SSI-14-E-A-60"	07/16/2018	Soil	1
93283.36	SSI-14-E-C-36"	07/16/2018	Soil	1
93283.37	SSI-14-E-C-48"	07/16/2018	Soil	1
93283.38	SSI-14-E-C-60"	07/16/2018	Soil	1
93283.40	SSI-14-E-C-120"	07/16/2018	Soil	1

Continued

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91264**	**Project ID: LASD1-32.7** **Date Received 07/16/2018** **Date Reported 07/19/2018**
Telephone: (909)989-4449 **Attention: Mike Watson**	

Job Number	Order Date	Client
93283	07/16/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93283.42	SSI-14-S-F-36"	07/16/2018	Soil	1
93283.43	SSI-14-S-F-48"	07/16/2018	Soil	1
93283.44	SSI-14-S-B-18"	07/16/2018	Soil	1
93283.45	SSI-14-S-B-36"	07/16/2018	Soil	1
93283.47	SSI-14-S-C-18"	07/16/2018	Soil	1
93283.48	SSI-14-S-C-36"	07/16/2018	Soil	1
93283.50	SSI-14-S-G-18"	07/16/2018	Soil	1
93283.51	SSI-14-S-G-36"	07/16/2018	Soil	1
93283.53	SSI-14-S-A-18"	07/16/2018	Soil	1
93283.54	DUP38	07/16/2018	Soil	1
93283.55	SSI-14-S-A-36"	07/16/2018	Soil	1
93283.58	SSI-14-S-D-18"	07/16/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6020) ^ AS	07/19/2018	4	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

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson
Page: **2**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
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

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **3**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C3

Our Lab I.D.			93283.01				
Client Sample I.D.			SSI-14-A-48"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	143				

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ANALYTICAL RESULTS

Ordered By

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Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C3

Our Lab I.D.			Method Blank	**93283.02**			
Client Sample I.D.				SSI-14-A-60"			
Date Sampled				**07/16/2018**			
Date Prepared			**07/24/2018**	**07/24/2018**			
Preparation Method			**3050B**	**3050B**			
Date Analyzed			**07/25/2018**	**07/25/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	**0.05**	**0.10**	**ND**	**59.0**			

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ANALYTICAL RESULTS

Ordered By

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **5**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			Method Blank	93283.04			
Client Sample I.D.				SSI-14-A-90"			
Date Sampled				07/16/2018			
Date Prepared			08/06/2018	08/06/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/07/2018	08/07/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	25.0			

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
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Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			Method Blank	**93283.05**			
Client Sample I.D.				SSI-14-A-120 "			
Date Sampled				**07/16/2018**			
Date Prepared			**08/09/2018**	**08/09/2018**			
Preparation Method			**3050B**	**3050B**			
Date Analyzed			**08/10/2018**	**08/10/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	**0.05**	**0.10**	**ND**	**3.39**			

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C3

Our Lab I.D.			93283.06				
Client Sample I.D.			SSI-14-D-48"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	78.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			93283.08				
Client Sample I.D.			SSI-14-D-90"				
Date Sampled			07/16/2018				
Date Prepared			08/06/2018				
Preparation Method			3050B				
Date Analyzed			08/07/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	11.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			93283.09				
Client Sample I.D.			SSI-14-D-120 "				
Date Sampled			07/16/2018				
Date Prepared			08/09/2018				
Preparation Method			3050B				
Date Analyzed			08/10/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	5.11				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C3

Our Lab I.D.			93283.10				
Client Sample I.D.			SSI-14-E-D-6 "				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	36.0				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			93283.11				
Client Sample I.D.			SSI-14-E-D-1 8"				
Date Sampled			07/16/2018				
Date Prepared			08/06/2018				
Preparation Method			3050B				
Date Analyzed			08/07/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	52.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			93283.16				
Client Sample I.D.			SSI-14-E-D-1 20"				
Date Sampled			07/16/2018				
Date Prepared			08/09/2018				
Preparation Method			3050B				
Date Analyzed			08/10/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.04				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C3

Our Lab I.D.			93283.17				
Client Sample I.D.			SSI-14-E-B-6 "				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	12.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C3

Our Lab I.D.			93283.18	93283.19	93283.20		
Client Sample I.D.			SSI-14-E-B-1 8"	SSI-14-E-B-3 6"	SSI-14-E-B-4 8"		
Date Sampled			07/16/2018	07/16/2018	07/16/2018		
Date Prepared			07/18/2018	07/18/2018	07/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/19/2018	07/19/2018	07/19/2018		
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	9.01	5.99	11.5		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C3

Our Lab I.D.			93283.24				
Client Sample I.D.			SSI-14-E-90"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	15.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C3

Our Lab I.D.			93283.25				
Client Sample I.D.			SSI-14-E-120 "				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			3050B				
Date Analyzed			07/25/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.89				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C3

Our Lab I.D.			93283.27				
Client Sample I.D.			SSI-14-E-A-6 "				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.71				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C3

Our Lab I.D.			93283.28	93283.29	93283.30		
Client Sample I.D.			SSI-14-E-A-1 8"	SSI-14-E-A-3 6"	SSI-14-E-A-4 8"		
Date Sampled			07/16/2018	07/16/2018	07/16/2018		
Date Prepared			07/18/2018	07/18/2018	07/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/19/2018	07/19/2018	07/19/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			50	50	50		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	2.50	5	27.3	49.5	44.6		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C3

Our Lab I.D.			93283.31	93283.36	93283.37		
Client Sample I.D.			SSI-14-E-A-6 0"	SSI-14-E-C-3 6"	SSI-14-E-C-4 8"		
Date Sampled			07/16/2018	07/16/2018	07/16/2018		
Date Prepared			07/24/2018	07/24/2018	07/24/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/25/2018	07/25/2018	07/25/2018		
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	8.07	30.3	13.2		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			93283.38				
Client Sample I.D.			SSI-14-E-C-6 0"				
Date Sampled			07/16/2018				
Date Prepared			08/06/2018				
Preparation Method			3050B				
Date Analyzed			08/07/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	16.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			93283.40				
Client Sample I.D.			SSI-14-E-C-1 20"				
Date Sampled			07/16/2018				
Date Prepared			08/09/2018				
Preparation Method			3050B				
Date Analyzed			08/10/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.73				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8

Our Lab I.D.			93283.41				
Client Sample I.D.			SSI-14-S-F-1 8"				
Date Sampled			07/16/2018				
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	57.1				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			93283.42				
Client Sample I.D.			SSI-14-S-F-3 6"				
Date Sampled			07/16/2018				
Date Prepared			08/06/2018				
Preparation Method			3050B				
Date Analyzed			08/07/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	18.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5

Our Lab I.D.			93283.43				
Client Sample I.D.			SSI-14-S-F-4 8"				
Date Sampled			07/16/2018				
Date Prepared			08/09/2018				
Preparation Method			3050B				
Date Analyzed			08/10/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.38				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C4

Our Lab I.D.			93283.44				
Client Sample I.D.			SSI-14-S-B-1 8"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	13.6				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C1

Our Lab I.D.			Method Blank	**93283.45**			
Client Sample I.D.				SSI-14-S-B-3 6"			
Date Sampled				**07/16/2018**			
Date Prepared			**08/16/2018**	**08/16/2018**			
Preparation Method			**3050B**	**3050B**			
Date Analyzed			**08/17/2018**	**08/17/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	**0.05**	**0.10**	**ND**	**5.96**			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C4

Our Lab I.D.			93283.47				
Client Sample I.D.			SSI-14-S-C-1 8"				
Date Sampled			07/16/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	12.0				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C3

Our Lab I.D.			93283.48	93283.50			
Client Sample I.D.			SSI-14-S-C-3 6"	SSI-14-S-G-1 8"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/24/2018	07/24/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/25/2018	07/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	7.07	12.9			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			93283.51				
Client Sample I.D.			SSI-14-S-G-3 6"				
Date Sampled			07/16/2018				
Date Prepared			08/06/2018				
Preparation Method			3050B				
Date Analyzed			08/07/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	7.49				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C4

Our Lab I.D.			93283.53	93283.54			
Client Sample I.D.			SSI-14-S-A-1 8"	DUP38			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/18/2018	07/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/19/2018	07/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	22.9	22.8			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C3

Our Lab I.D.			93283.55	93283.58			
Client Sample I.D.			SSI-14-S-A-3 6"	SSI-14-S-D-1 8"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			07/24/2018	07/24/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/25/2018	07/25/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	4.50	9.99			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C11

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/24/2018				
Preparation Method			1311				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C11

Our Lab I.D.			93283.01				
Client Sample I.D.			SSI-14-A-48"				
Date Sampled			07/16/2018				
Date Prepared			07/24/2018				
Preparation Method			1311				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	1.05				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			93283.02	93283.06			
Client Sample I.D.			SSI-14-A-60"	SSI-14-D-48"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			08/03/2018	08/03/2018			
Preparation Method			1311	1311			
Date Analyzed			08/06/2018	08/06/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic (TCLP)	0.50	1.00	ND	ND			

Comment(s):
93283.02: Analyzed under dilution due to matrix interference 93283.06: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/24/2018				
Preparation Method			1311				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15

Our Lab I.D.			93283.11				
Client Sample I.D.			SSI-14-E-D-1 8"				
Date Sampled			07/16/2018				
Date Prepared			08/24/2018				
Preparation Method			1311				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	0.705J				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			**93283.41**				
Client Sample I.D.			SSI-14-S-F-1 8"				
Date Sampled			**07/16/2018**				
Date Prepared			**08/03/2018**				
Preparation Method			**1311**				
Date Analyzed			**08/06/2018**				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	**0.50**	**1.00**	**ND**				

Comment(s):
93283.41: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C10

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/25/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C10

Our Lab I.D.			93283.01				
Client Sample I.D.			SSI-14-A-48"				
Date Sampled			07/16/2018				
Date Prepared			07/25/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	6.31				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			93283.02	93283.06			
Client Sample I.D.			SSI-14-A-60"	SSI-14-D-48"			
Date Sampled			07/16/2018	07/16/2018			
Date Prepared			08/03/2018	08/03/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			08/06/2018	08/06/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	2.16	3.94			

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			93283.11				
Client Sample I.D.			SSI-14-E-D-1 8"				
Date Sampled			07/16/2018				
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	2.76				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			93283.41				
Client Sample I.D.			SSI-14-S-F-1 8"				
Date Sampled			07/16/2018				
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	0.798				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0724182C11; Dup or Spiked Sample: 93282.10; LCS: Clean Sand; LCS Prepared: 07/24/2018; LCS Analyzed: 07/26/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**1.58**	**1.62**	**2.5**	**<20**						

QC Batch No: 0724182C11; Dup or Spiked Sample: 93282.10; LCS: Clean Sand; LCS Prepared: 07/24/2018; LCS Analyzed: 07/26/2018; 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 (TCLP)	**10.0**	**9.57**	**95.7**	**10.0**	**9.64**	**96.4**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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 (TCLP)	**10.0**	**9.55**	**95.5**	**10.0**	**9.16**	**91.6**	**4.17**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15; Dup or Spiked Sample: 93736.02; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	ND	ND	<1	<20						

QC Batch No: 0824182C15; Dup or Spiked Sample: 93736.02; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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 (TCLP)	10.0	9.79	97.9	10.0	9.87	98.7	<1	80-120	<15	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0725182C10; Dup or Spiked Sample: 93237.24; LCS: Clean Sand; LCS Prepared: 07/25/2018; LCS Analyzed: 07/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0725182C10; Dup or Spiked Sample: 93237.24; LCS: Clean Sand; LCS Prepared: 07/25/2018; LCS Analyzed: 07/27/2018; 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**	**9.61**	**96.1**	**10.0**	**9.99**	**99.9**	**3.88**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**3.94**	**4.30**	**8.7**	**<20**						

QC Batch No: 0803182C9; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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**	**8.78**	**87.8**	**10.0**	**8.58**	**85.8**	**2.3**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16; Dup or Spiked Sample: 93736.01; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**12.7**	**13.1**	**3.1**	**<20**						

QC Batch No: 0824182C16; Dup or Spiked Sample: 93736.01; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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**	**9.98**	**99.8**	**10.0**	**9.75**	**97.5**	**2.3**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C3; Dup or Spiked Sample: 93283.01; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**143**	**1.00**	**166 #**	**2300**	**1.00**	**165 #**	**2200**	**4.4**	**80-120**	**<15**

QC Batch No: 0718181C3; Dup or Spiked Sample: 93283.01; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.01**	**101**	**1.00**	**1.07**	**107**	**5.8**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C4; Dup or Spiked Sample: 93283.44; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**13.6**	**1.00**	**14.7**	**110**	**1.00**	**14.6**	**100**	**9.5**	**80-120**	**<15**

QC Batch No: 0718181C4; Dup or Spiked Sample: 93283.44; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.11**	**111**	**1.00**	**1.11**	**111**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0724181C3; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; QC Prepared: 07/24/2018; QC Analyzed: 07/25/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**59.0**	**1.00**	**51.1 #**	**-790.0**	**1.00**	**50.8 #**	**-820.0**	**3.73**	**80-120**	**<15**

QC Batch No: 0724181C3; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; QC Prepared: 07/24/2018; QC Analyzed: 07/25/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.850**	**85.4**	**1.00**	**0.910**	**91.3**	**6.68**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8; Dup or Spiked Sample: 93299.34; LCS: Clean Sand; QC Prepared: 07/27/2018; QC Analyzed: 07/30/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.77**	**1.00**	**5.20 #**	**143**	**1.00**	**5.25 #**	**148**	**3.4**	**80-120**	**<15**

QC Batch No: 0727181C8; Dup or Spiked Sample: 93299.34; LCS: Clean Sand; QC Prepared: 07/27/2018; QC Analyzed: 07/30/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.02**	**102**	**1.00**	**1.02**	**102**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3; Dup or Spiked Sample: 93283.04; LCS: Clean Sand; LCS Prepared: 08/06/2018; LCS Analyzed: 08/07/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.930**	**93.0**	**1.00**	**0.918**	**91.8**	**1.3**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0809181C5; Dup or Spiked Sample: 93283.05; LCS: Clean Sand; QC Prepared: 08/09/2018; QC Analyzed: 08/10/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.39**	**1.00**	**3.99 #**	**60.0**	**1.00**	**4.02 #**	**63.0**	**4.9**	**80-120**	**<15**

QC Batch No: 0809181C5; Dup or Spiked Sample: 93283.05; LCS: Clean Sand; QC Prepared: 08/09/2018; QC Analyzed: 08/10/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.951**	**95.1**	**1.00**	**0.993**	**99.3**	**4.3**	**80-120**	**<15**	

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93283	07/16/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C1; Dup or Spiked Sample: 93596.07; LCS: Clean Sand; QC Prepared: 08/16/2018; QC Analyzed: 08/17/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**7.52**	**1.00**	**9.06 #**	**154**	**1.00**	**9.28 #**	**176**	**13.3**	**80-120**	**<15**

QC Batch No: 0816181C1; Dup or Spiked Sample: 93596.07; LCS: Clean Sand; QC Prepared: 08/16/2018; QC Analyzed: 08/17/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.997**	**99.7**	**1.00**	**0.871**	**87.1**	**13.5**	**80-120**	**<15**	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Ordered By

Placeworks
2850 Inland Empire Blvd.
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**33**
Date Received	**07/17/2018**
Date Reported	**09/07/2018**

Job Number	Order Date	Client
93298	07/17/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 30 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

106407

AETL JOB No. 93298

Page 1 of 8

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 285 INLAND EMPIRE BLVD SUITE ONTARIO CA 91764
PHONE: 9099899499
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St, LA CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-8-E-G-18"		7/17/18	0748	Soil	1 acetate sleeve	ice		X	93298-01
2	SSI-8-E-G-30"		↓	0749	↓	↓	↓		X	93298-02
3	SSI-8-E-G-42"			0750					X	93298-03
4	SSI-8-E-C-18"			0753				X		93298-04
5	SSI-8-E-C-30"			0754				X		93298-05
6	SSI-8-E-C-42"			0755					X	93298-06
7	SSI-8-E-B-18"			0759				X		93298-07
8	DUP40							X		93298-08
9	SSI-8-E-B-30"			0800				X		93298-09
10	SSI-8-E-B-42"			0801					X	93298-10
11	DUP41								X	93298-11
12	SSI-8-E-F-18"			0805				*	X	93298-12
13	SSI-8-E-F-30"			0806				⊛	X	93298-13
14	SSI-8-E-F-42"			0807					X	93298-14
15	SSI-8-E-A-18"			0812				X		93298-15

TEST INSTRUCTIONS & COMMENTS: *(1) 7/24 3DAYS; ⊛(1) 7/30 3DAYS; A(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY	(SAMPLER) Signature: [signature]; Printed Name: MIKE WATSON; Date: 7/17/18; Time: 1440	Signature: ; Printed Name: ; Date: ; Time:	Signature: [signature]; Printed Name: C. [illegible]; Date: 7/17/18; Time: 1725
RECEIVED BY	Signature: [signature]; Printed Name: CHONTEOH PAGTILAO; Date: 7/17/18; Time: 1440	Signature: ; Printed Name: ; Date: ; Time:	(LABORATORY): AETL; Signature: [signature]; Printed Name: Jean Claude; Date: 07/17/18; Time: 1725

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

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CHAIN OF CUSTODY RECORD

106408

AETL JOB No. 93298

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan SHS SSI
PROJECT #: LASDI-32.1
SITE NAME AND ADDRESS: David Starr Jordan SHS LA CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	SILC/TCLP As	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-8-E-A-30"		7/17/18	0813	Soil	1 acetate sleeve	ice	X			93298.16
2	SSI-8-E-A-42"		↓	0814	↓	↓	↓	*		X	93298.17
3	SSI-8-E-D-18"			0819				*		X	93298.18
4	SSI-8-E-D-30"			0820				*		X	93298.19
5	SSI-8-E-D-42"			0821						X	93298.20
6	SSI-3-N-F-18"			0852						X	93298.21
7	SSI-3-NF-30"			0853				*		X	93298.22
8	SSI-3-NF-42"			0854				(*)	⚠*	X	93298.23
9	SSI-3-N-B-18"			0857				X			93298.24
10	SSI-3-N-B-30"			0858				X			93298.25
11	SSI-3-N-B-42"			0859				*		X	93298.26
12	SSI-3-N-C-18"			0905				X			93298.27
13	DUP42							X			93298.28
14	SSI-3-N-C-30"			0906				X			93298.29
15	SSI-3-N-C-42"		↓	0907	↓	↓	↓	*		X	93298.30

TEST INSTRUCTIONS & COMMENTS:
* (6) 7/24 3 DAYS
(*) (1) 7/30 3 DAYS
⚠* (1) 8/3 Normal

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

	1.	2.	3.
RELINQUISHED BY	RELINQUISHED BY SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 7/17/18 Time: 1440	RELINQUISHED BY: Signature: Printed Name: Date: Time:	RELINQUISHED BY: Signature: [signature] Printed Name: C. Padilla Date: 7/17/18 Time: 1725
RECEIVED BY	RECEIVED BY: Signature: [signature] Printed Name: CHAN VON PADILLA Date: 7/17/18 Time: 1440	RECEIVED BY: Signature: Printed Name: Date: Time:	RECEIVED BY LABORATORY: AETL Signature: [signature] Printed Name: Sean Sande Date: 07/17/18 Time: 1725

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

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

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CHAIN OF CUSTODY RECORD

108769

AETL JOB No. 93298

COMPANY: P. Alclores (?)
PROJECT MANAGER: Nike Lawson (?)
COMPANY ADDRESS: 2525 E. Inland Empire Blvd, Ontario CA 91764 (?)
PHONE: 909 981 4984 (?)
FAX:
PROJECT NAME: David Starr Jordan HS SSI (?)
PROJECT #: LAD1327 (?)
SITE NAME AND ADDRESS: David Starr Jordan HS, L.A. CA 90002 (?)
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	Hold	TEST INSTRUCTIONS & COMMENTS
1	DUP43		7/17/18		Soil	1 acetate sleeve	Ice		X	93298.31
2	SSI-3-N-G-18"		↓	0912	↓	↓	↓	*	X	93298.32
3	SSI-3-N-G-30"			0913				*	X	93298.33
4	SSI-3-N-G-42"			0914					X	93298.34
5	SSI-3-N-A-18"			0916				X		93298.35
6	SSI-3-N-A-30"			0917				X		93298.36
7	SSI-3-N-A-42"			0918					X	93298.37
8	SSI-3-N-D-18"			0920					X	93298.38
9	SSI-3-N-D-30"			0921					X	93298.39
10	SSI-3-N-D-42"			0922					X	93298.40
11	SSI-7-F-30"			0934					X	93298.41
12	SSI-7-F-60"			0936					X	93298.42
13	SSI-7-F-90"			0938					X	93298.43
14	SSI-7-B-30"			0944				X		93298.44
15	SSI-7-B-60"		↓	0946	↓	↓	↓		X	93298.45

TEST INSTRUCTIONS & COMMENTS: *(2) 7/24 3 DAYS; ⊛(0); ⚹(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

	1.	2.	3.
RELINQUISHED BY	SAMPLER — Signature: [signature]; Printed Name: M. Renato (?); Date: 7/17/18; Time: 1440	Signature: —; Printed Name: —; Date: —; Time: —	Signature: [signature]; Printed Name: C. Padilla (?); Date: 7/17/18; Time: 1725
RECEIVED BY	Signature: [signature]; Printed Name: Christian Perenlia (?); Date: 7/17/18; Time: 1440	Signature: —; Printed Name: —; Date: —; Time: —	LABORATORY: AETL; Signature: —; Printed Name: —; Date: —; Time: —

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

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

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CHAIN OF CUSTODY RECORD

108768

AETL JOB No. 93248 Page 4 of 8

COMPANY	PLACEWORKS
COMPANY ADDRESS	2850 INLAND EMPIRE BLVD STE D ONTARIO CA 91764
PROJECT MANAGER	MIKE LATSO
PHONE	909 989 4449
FAX	
PROJECT NAME	David Starr Jordan SHS SSI
PROJECT #	LASD-327
SITE NAME AND ADDRESS	David Starr Jordan SHS LA CA 90002
PO #	

ANALYSIS REQUESTED

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Gold (A)	TCLP	TEST INSTRUCTIONS & COMMENTS
1	SSI-7-B-90'		7/17/18	0948	Soil	1 glass jar 8 oz	ICE		X	93298.46
2	SSI-7-C-30'			0950				X		93298.47
3	SSI-7-C-60'			0952					X	93298.48
4	SSI-7-C-90'			0954					X	93298.49
5	SSI-7-G-30'			0958					X	93298.50
6	SSI-7-G-60'			1000					X	93298.51
7	SSI-7-G-90'			1002					X	93298.52
8	SSI-7-A-30'			1016				X		93298.53
9	SSI-7-A-60'			1018					X	93298.54
10	SSI-7-A-90'			1020					X	93298.55
11	SSI-7-D-30'			1027					X	93298.56
12	SSI-7-D-60'			1029					X	93298.57
13	SSI-7-D-90'			1031					X	93298.58
14	SSI-7-60'			1051				X		93298.59
15	DUP44							X		93298.60

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER: / RELINQUISHED BY: / RELINQUISHED BY:	Signature:	Signature:	Signature:
	Printed Name: MIKE LATSO	Printed Name:	Printed Name:
	Date: 7/17/18 Time: 1490	Date: Time:	Date: 7/17/18 Time: 1725
RECEIVED BY: / RECEIVED BY: / RECEIVED BY LABORATORY:	Signature:	Signature:	Signature:
	Printed Name:	Printed Name:	Printed Name:
	Date: 7/17/18 Time: 1440	Date: Time:	Date: 07/18/18 Time: 1725

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, July 24, 2018 3:44 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-17-2018
Attachments: image001.jpg; image002.jpg

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-3-N-B-42"
SSI-3-N-C-42"
SSI-3-N-F-30"
SSI-3-N-G-18"
SSI-3-N-G-30"
SSI-4-N-A-30"
SSI-4-N-D-18"
SSI-7-S-B-30"
SSI-7-S-F-18"
SSI-8-E-A-42"
SSI-8-E-D-18"
SSI-8-E-D-30"
SSI-8-E-F-18"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, July 20, 2018 3:35 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-17-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93298 & 93299

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 8:50 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-3-N-F-42" and SSI-8-E-F-30" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, July 27, 2018 6:50 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93298

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Friday, August 3, 2018 8:29 AM
To: JIM LIN
Cc: Andrew Modugno (andrew.modugno@lausd.net)
Subject: Re: Summary Table Results of Samples from \David Starr Jordan Senior High School, Los Angeles, CA\ for samples additional requested on 07-30-2018

Please run SSI-14-C-120" and SSI-14-G-120" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Please run SSI-14-C-90", SSI-14-G-90", SSI-15-C-120", and SSI-3-N-F-42" for arsenic STLC and TCLP using a normal TAT.

Thanks,
-Mike

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From: JIM LIN <jiml@aetlab.com>
Sent: Thursday, August 2, 2018 11:54:19 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-30-2018

Dear Mike,
Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .
AETL Job No: 93325
Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

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COOLER RECEIPT FORM

Client Name: Place work s
Project Name:
AETL Job Number: 93298 & 93299
Date Received: 07/17/18 Received by: Jean Lande
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

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

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd.
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/17/2018
Date Reported 07/20/2018

Job Number	Order Date	Client
93298	07/17/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 60 samples with the following specification on 07/17/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93298.01	SSI-8-E-G-18"	07/17/2018	Soil	1
93298.02	SSI-8-E-G-30"	07/17/2018	Soil	1
93298.03	SSI-8-E-G-42"	07/17/2018	Soil	1
93298.06	SSI-8-E-C-42"	07/17/2018	Soil	1
93298.10	SSI-8-E-B-42"	07/17/2018	Soil	1
93298.11	DUP41	07/17/2018	Soil	1
93298.14	SSI-8-E-F-42"	07/17/2018	Soil	1
93298.20	SSI-8-E-D-42"	07/17/2018	Soil	1
93298.21	SSI-3-N-F-18"	07/17/2018	Soil	1
93298.31	DUP43	07/17/2018	Soil	1
93298.34	SSI-3-N-G-42"	07/17/2018	Soil	1
93298.37	SSI-3-N-A-42"	07/17/2018	Soil	1
93298.38	SSI-3-N-D-18"	07/17/2018	Soil	1
93298.39	SSI-3-N-D-30"	07/17/2018	Soil	1
93298.40	SSI-3-N-D-42"	07/17/2018	Soil	1
93298.41	SSI-7-F-30"	07/17/2018	Soil	1
93298.42	SSI-7-F-60"	07/17/2018	Soil	1
93298.43	SSI-7-F-90"	07/17/2018	Soil	1
93298.45	SSI-7-B-60"	07/17/2018	Soil	1
93298.46	SSI-7-B-90"	07/17/2018	Soil	1
93298.48	SSI-7-C-60"	07/17/2018	Soil	1
93298.49	SSI-7-C-90"	07/17/2018	Soil	1
93298.50	SSI-7-G-30"	07/17/2018	Soil	1
93298.51	SSI-7-G-60"	07/17/2018	Soil	1

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/17/2018
Date Reported 07/20/2018

Job Number	Order Date	Client
93298	07/17/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93298.52	SSI-7-G-90"	07/17/2018	Soil	1
93298.54	SSI-7-A-60"	07/17/2018	Soil	1
93298.55	SSI-7-A-90"	07/17/2018	Soil	1
93298.56	SSI-7-D-30"	07/17/2018	Soil	1
93298.57	SSI-7-D-60"	07/17/2018	Soil	1
93298.58	SSI-7-D-90"	07/17/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
ARCHIVE	07/20/2018	4	Rush	--

93298.04	SSI-8-E-C-18"	07/17/2018	Soil	1
93298.05	SSI-8-E-C-30"	07/17/2018	Soil	1
93298.07	SSI-8-E-B-18"	07/17/2018	Soil	1
93298.08	DUP40	07/17/2018	Soil	1
93298.09	SSI-8-E-B-30"	07/17/2018	Soil	1
93298.12	SSI-8-E-F-18"	07/17/2018	Soil	1
93298.13	SSI-8-E-F-30"	07/17/2018	Soil	1
93298.15	SSI-8-E-A-18"	07/17/2018	Soil	1
93298.16	SSI-8-E-A-30"	07/17/2018	Soil	1
93298.17	SSI-8-E-A-42"	07/17/2018	Soil	1
93298.18	SSI-8-E-D-18"	07/17/2018	Soil	1
93298.19	SSI-8-E-D-30"	07/17/2018	Soil	1
93298.22	SSI-3-N-F-30"	07/17/2018	Soil	1
93298.24	SSI-3-N-B-18"	07/17/2018	Soil	1
93298.25	SSI-3-N-B-30"	07/17/2018	Soil	1
93298.26	SSI-3-N-B-42"	07/17/2018	Soil	1
93298.27	SSI-3-N-C-18"	07/17/2018	Soil	1
93298.28	DUP42	07/17/2018	Soil	1
93298.29	SSI-3-N-C-30"	07/17/2018	Soil	1
93298.30	SSI-3-N-C-42"	07/17/2018	Soil	1
93298.32	SSI-3-N-G-18"	07/17/2018	Soil	1

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
93298	07/17/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

93298.33	SSI-3-N-G-30"	07/17/2018	Soil	1
93298.35	SSI-3-N-A-18"	07/17/2018	Soil	1
93298.36	SSI-3-N-A-30"	07/17/2018	Soil	1
93298.44	SSI-7-B-30"	07/17/2018	Soil	1
93298.47	SSI-7-C-30"	07/17/2018	Soil	1
93298.53	SSI-7-A-30"	07/17/2018	Soil	1
93298.59	SSI-7-60"	07/17/2018	Soil	1
93298.60	DUP44	07/17/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/20/2018	4	Rush	mg/Kg

93298.23	SSI-3-N-F-42"	07/17/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/20/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/20/2018	4	Rush	mg/L
(6020) ^ AS	07/20/2018	4	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

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Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C5

Our Lab I.D.			Method Blank	93298.04	93298.05		
Client Sample I.D.				SSI-8-E-C-18 "	SSI-8-E-C-30 "		
Date Sampled				07/17/2018	07/17/2018		
Date Prepared			07/18/2018	07/18/2018	07/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/19/2018	07/19/2018	07/19/2018		
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	10.8	4.87		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C5

Our Lab I.D.			93298.07				
Client Sample I.D.			SSI-8-E-B-18 "				
Date Sampled			07/17/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	18.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C5

Our Lab I.D.			93298.08	93298.09			
Client Sample I.D.			DUP40	SSI-8-E-B-30 "			
Date Sampled			07/17/2018	07/17/2018			
Date Prepared			07/18/2018	07/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/19/2018	07/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	13.4	5.20			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.12				
Client Sample I.D.			SSI-8-E-F-18 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	22.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			Method Blank	**93298.13**			
Client Sample I.D.				SSI-8-E-F-30 "			
Date Sampled				**07/17/2018**			
Date Prepared			**08/01/2018**	**08/01/2018**			
Preparation Method			**3050B**	**3050B**			
Date Analyzed			**08/02/2018**	**08/02/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	**0.05**	**0.10**	**ND**	**7.40**			

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Page: **8**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C5

Our Lab I.D.			93298.15	93298.16			
Client Sample I.D.			SSI-8-E-A-18 "	SSI-8-E-A-30 "			
Date Sampled			07/17/2018	07/17/2018			
Date Prepared			07/18/2018	07/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/19/2018	07/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	16.6	24.1			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.17				
Client Sample I.D.			SSI-8-E-A-42 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.74				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.18				
Client Sample I.D.			SSI-8-E-D-18 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	13.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.19				
Client Sample I.D.			SSI-8-E-D-30 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	6.72				

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Page: **12**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.22				
Client Sample I.D.			SSI-3-N-F-30 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	12.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93298.23				
Client Sample I.D.			SSI-3-N-F-42 "				
Date Sampled			07/17/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	100				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C5

Our Lab I.D.			93298.24				
Client Sample I.D.			SSI-3-N-B-18 "				
Date Sampled			07/17/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	10.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C5

Our Lab I.D.			93298.25				
Client Sample I.D.			SSI-3-N-B-30 "				
Date Sampled			07/17/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	16.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.26				
Client Sample I.D.			SSI-3-N-B-42 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.59				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C5

Our Lab I.D.			93298.27				
Client Sample I.D.			SSI-3-N-C-18 "				
Date Sampled			07/17/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	22.7				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C6

Our Lab I.D.			Method Blank	93298.28	93298.29		
Client Sample I.D.				DUP42	SSI-3-N-C-30 "		
Date Sampled				07/17/2018	07/17/2018		
Date Prepared			07/18/2018	07/18/2018	07/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/19/2018	07/19/2018	07/19/2018		
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	11.5	14.5		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.30				
Client Sample I.D.			SSI-3-N-C-42 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.55				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.32				
Client Sample I.D.			SSI-3-N-G-18 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	16.2				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5

Our Lab I.D.			93298.33				
Client Sample I.D.			SSI-3-N-G-30 "				
Date Sampled			07/17/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	6.59				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C6

Our Lab I.D.			93298.35	93298.36	93298.44	93298.47	93298.53
Client Sample I.D.			SSI-3-N-A-18"	SSI-3-N-A-30"	SSI-7-B-30"	SSI-7-C-30"	SSI-7-A-30"
Date Sampled			07/17/2018	07/17/2018	07/17/2018	07/17/2018	07/17/2018
Date Prepared			07/18/2018	07/18/2018	07/18/2018	07/18/2018	07/18/2018
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			07/19/2018	07/19/2018	07/19/2018	07/19/2018	07/19/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Arsenic	0.05	0.10	10.5	3.45	4.33	4.18	4.82

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C6

Our Lab I.D.			93298.59	93298.60			
Client Sample I.D.			SSI-7-60"	DUP44			
Date Sampled			07/17/2018	07/17/2018			
Date Prepared			07/18/2018	07/18/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/19/2018	07/19/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	2.62	2.16			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**08/03/2018**				
Preparation Method			**1311**				
Date Analyzed			**08/06/2018**				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	**0.05**	**0.10**	**ND**				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			93298.23				
Client Sample I.D.			SSI-3-N-F-42 "				
Date Sampled			07/17/2018				
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

Comment(s):
93298.23: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			93298.23				
Client Sample I.D.			SSI-3-N-F-42 "				
Date Sampled			07/17/2018				
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	1.30				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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 (TCLP)	**10.0**	**9.55**	**95.5**	**10.0**	**9.16**	**91.6**	**4.2**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0803182C9; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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**	**8.78**	**87.8**	**10.0**	**8.58**	**85.8**	**2.3**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C5; Dup or Spiked Sample: 93298.04; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**10.8**	**1.00**	**11.7 #**	**90.0**	**1.00**	**11.5 #**	**70.0**	**25.0**	**80-120**	**<15**

QC Batch No: 0718181C5; Dup or Spiked Sample: 93298.04; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.990**	**98.6**	**1.00**	**0.900**	**90.1**	**9.01**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C6; Dup or Spiked Sample: 93298.28; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**11.5**	**1.00**	**12.5**	**100**	**1.00**	**12.3**	**80.0**	**22.2**	**80-120**	**<15**

QC Batch No: 0718181C6; Dup or Spiked Sample: 93298.28; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.00**	**100**	**1.00**	**0.950**	**94.7**	**5.44**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C5; Dup or Spiked Sample: 93298.17; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.74**	**1.00**	**4.24 #**	**50.0**	**1.00**	**4.29 #**	**55.0**	**9.5**	**80-120**	**<15**

QC Batch No: 0725181C5; Dup or Spiked Sample: 93298.17; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.03**	**103**	**1.00**	**1.00**	**100**	**3.0**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **33**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93298	07/17/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.32**	**1.00**	**4.11**	**79.0**	**1.00**	**4.07**	**75.0**	**5.2**	**80-120**	**<15**

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.04**	**104**	**1.00**	**1.03**	**103**	**<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

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Ordered By

Placeworks
2850 Inland Empire Blvd.
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**24**
Date Received	**07/18/2018**
Date Reported	**09/07/2018**

Job Number	Order Date	Client
93299	07/18/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 18 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

108767

AETL JOB No. 93299

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 3350 INLAND EMPIRE BLVD RCB ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan SHS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS LA CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020	Hold	TEST INSTRUCTIONS & COMMENTS
										✱(2) 7/24 3 DAYS TAT; ⊛(0); ⚠(0); ⊠(0)
1	SSI-7-90"		7/17/18	1053	Soil	1 Acetate Sleeve	Ice		X	93299.01
2	DUP45		↓		↓	↓	↓		X	93299.02
3	SSI-7-120"			1055					X	93299.03
4	SSI-7-S-D-18"			1148					X	93299.04
5	DUP46								X	93299.05
6	SSI-7-S-D-30"			1150					X	93299.06
7	SSI-7-S-A-18"			1156				X		93299.07
8	SSI-7-S-A-30"			1158					X	93299.08
9	SSI-7-S-C-18"			1200				X		93299.09
10	SSI-7-S-C-30"			1202					X	93299.10
11	SSI-7-S-G-18"			1203					X	93299.11
12	SSI-7-S-G-30"			1204					X	93299.12
13	SSI-7-S-B-18"			1206				X		93299.13
14	SSI-7-S-B-30"			1207				✱	X	93299.14
15	SSI-7-S-F-18"		↓	1211	↓	↓	↓	✱	X	93299.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☒ PDF
☐ GEOTRACKER (GLOBAL ID) ______
☐ OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [illegible]; Printed Name: MIKE WATSON; Date: 7/17/18; Time: 1440	Signature:; Printed Name:; Date:; Time:	Signature: [illegible]; Printed Name: C. Pawling; Date: 7/17/18; Time: 1725
RECEIVED BY	Signature: [illegible]; Printed Name: CHAIN-O-L PAWLING; Date: 7/17/18; Time: 1440	Signature:; Printed Name:; Date:; Time:	LABORATORY: AETL; Signature: [illegible]; Printed Name: Jean Lande; Date: 7/17/18; Time: 1725

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

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CHAIN OF CUSTODY RECORD

105325

AETL JOB No. 93299

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 3850 INLAND EMPIRE Blvd SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS LA CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	STLC Arsenic	TCLP Arsenic	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-7-SF-30"		7/17/18	1212	Soil	acetate sleeve	ice					93299.16
2	SSI-4-N-F-18"		↓	1218	↓	↓	↓				X	93299.17
3	SSI-4-N-F-30"			1220							X	93299.18
4	SSI-4-N-B-18"			1222				X				93299.19
5	SSI-4-N-B-30"			1224							X	93299.20
6	SSI-4-N-C-18"			1226				X				93299.21
7	SSI-4-N-C-30"			1228							X	93299.22
8	SSI-4-N-G-18"			1230							X	93299.23
9	SSI-4-N-G-30"			1232							X	93299.24
10	SSI-4-N-A-18"			1234				X				93299.25
11	SSI-4-N-A-30"			1236				*	⊠*	⊠*	X	93299.26
12	SSI-4-N-D-18"			1238				*			X	93299.27
13	DUP47										X	93299.28
14	SSI-4-N-D-30"			1240				△*			X	93299.29
15	SSI-17-W-D-6'		↓	1308	↓	↓	↓				X	93299.30

TEST INSTRUCTIONS & COMMENTS:
* (2) 7/24 3 DAYS TAT
⊛ (0)
△* (1) 7/30 3 DAYS TAT
⊠* (1) 8/21

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

	1.	2.	3.
RELINQUISHED BY	(SAMPLER) Signature: [signature]; Printed Name: MIKES LABON; Date: 7/17/18; Time: 1440	[crossed out]	Signature: [signature]; Printed Name: C. Aguilar; Date: 7/17/18; Time: 1725
RECEIVED BY	Signature: [signature]; Printed Name: Christian Aguilar; Date: 7/17/18; Time: 1440	[crossed out]	(LABORATORY) AETL; Signature: [signature]; Printed Name: Jean Claude; Date: 07/17/18; Time: 1725

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

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CHAIN OF CUSTODY RECORD

105326

AETL JOB No. 93299 Page 7 of 8

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2980 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE	909 989 4949
FAX	
PROJECT NAME	David Starr Jordan Sen. HS SSS
PROJECT #	LASD1-32.7
SITE NAME AND ADDRESS	David Starr Jordan SHS LA, CA 90002
PO #	

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	HOLD	TEST INSTRUCTIONS & COMMENTS
1 SSI-17-W-D-24"		7/17/18	1309	Soil	1 acetate sleeve	ice		X	93299.31
2 SSI-17-W-D-48"			1310					X	93299.32
3 SSI-17-W-A-6"			1311				X		93299.33
4 SSI-17-W-A-24"			1312				*	X	93299.34
5 SSI-17-W-A-48"			1313					X	93299.35
6 SSI-17-W-C-6"			1314				X		93299.36
7 SSI-17-W-C-24"			1315				*	X	93299.37
8 SSI-17-W-C-48"			1316					X	93299.38
9 SSI-17-W-G-6"			1317					X	93299.39
10 SSI-17-W-G-24"			1318					X	93299.40
11 SSI-17-W-G-48"			1319					X	93299.41
12 SSI-17-W-F-6"			1320					X	93299.42
13 SSI-17-W-F-24"			1321					X	93299.43
14 SSI-17-W-F-48"			1322					X	93299.44
15 SSI-17-W-B-6"			1323				X		93299.45

TEST INSTRUCTIONS & COMMENTS:
*(0)
*(2) 7/25 3 DAYS
*(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PRAMILLA
Date: 7/17/18 Time: 1440	Date: Time:	Date: 7/17/18 Time: 1725
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name: C. PRAMILLA	Printed Name:	Printed Name:
Date: 7/17/18 Time: 1440	Date: Time:	Date: 07/17/18 Time: 1725

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

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CHAIN OF CUSTODY RECORD

105327

AETL JOB No. 93299 Page 8 of 8

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2850 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE	909 989 4949
FAX	
PROJECT NAME	David Starr Jordan SHS SSI
PROJECT #	LASD132-7
SITE NAME AND ADDRESS	David Starr Jordan SHS 2265 E 103rd St LA CA 90002
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	H2O	TEST INSTRUCTIONS & COMMENTS
1	SSI-17-W-B-24"		7/17/18	1324	Soil	1 acetate sleeve	ice	*	X	93299.46
2	SSI-17-W-B-48"			1325					X	93299.47
3	SSI-17-W-48"			1327				X		93299.48
4	SSI-17-W-60"			1329					X	93299.49
5	SSI-17-W-90"			1331					X	93299.50
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

ANALYSIS REQUESTED

TEST INSTRUCTIONS & COMMENTS
*(0)
*(1) 7/25 3DAYS
*(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	5	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		
Date:	7/17/18	Time:	Date: 7/17/18 Time: 1725
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: 3.
Signature:			AETL
Printed Name:	CARLOS GUTIERREZ		Jean Claude
Date:	7/17/18 Time: 1440	Date: Time:	Date: 07/17/18 Time: 1725

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, July 24, 2018 3:44 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-17-2018
Attachments: image001.jpg; image002.jpg

Please run the following samples for arsenic by EPA Method 6020 using a 3 day RUSH TAT:

SSI-3-N-B-42"
SSI-3-N-C-42"
SSI-3-N-F-30"
SSI-3-N-G-18"
SSI-3-N-G-30"
SSI-4-N-A-30"
SSI-4-N-D-18"
SSI-7-S-B-30"
SSI-7-S-F-18"
SSI-8-E-A-42"
SSI-8-E-D-18"
SSI-8-E-D-30"
SSI-8-E-F-18"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, July 20, 2018 3:35 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-17-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93298 & 93299

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 25, 2018 11:42 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-17-2018

Follow Up Flag: Follow up
Flag Status: Flagged

Please run SSI-17-W-A-24", SSI-17-W-B-24" and SSI-17-W-C-24" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,
-Mike

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, July 20, 2018 3:35 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-17-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93298 & 93299

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 8:53 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-4-N-D-30" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, July 27, 2018 6:54 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93299

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 21, 2018 12:18 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: David Starr Jordan Senior HS Additional Analyses
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic STLC and TCLP using a normal TAT:
SSI-4-N-A-30" 93299.26
SSI-7-30"
SSI-12-S/13-S-A-36"
SSI-14-E-D-18"
SSI-30-S-24"

Please run SSI-56-6" for lead STLC and TCLP using a normal TAT.

Thank you,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

PLACEWORKS

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COOLER RECEIPT FORM

Client Name: Place works

Project Name:

AETL Job Number: 93298 & 93299

Date Received: 07/17/18 Received by: Jean Canda

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

☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

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

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

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

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

_ Other (Specify):

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

Explain all "No" answers for above questions:

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Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/18/2018
Date Reported 09/07/2018

Job Number	Order Date	Client
93299	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 50 samples with the following specification on 07/18/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93299.01	SSI-7-90"	07/17/2018	Soil	1
93299.02	DUP45	07/17/2018	Soil	1
93299.03	SSI-7-120"	07/17/2018	Soil	1
93299.04	SSI-7-S-D-18"	07/17/2018	Soil	1
93299.05	DUP46	07/17/2018	Soil	1
93299.06	SSI-7-S-D-30"	07/17/2018	Soil	1
93299.08	SSI-7-S-A-30"	07/17/2018	Soil	1
93299.10	SSI-7-S-C-30"	07/17/2018	Soil	1
93299.11	SSI-7-S-G-18"	07/17/2018	Soil	1
93299.12	SSI-7-S-G-30"	07/17/2018	Soil	1
93299.16	SSI-7-S-F-30"	07/17/2018	Soil	1
93299.17	SSI-7-N-F-18"	07/17/2018	Soil	1
93299.18	SSI-7-N-F-30"	07/17/2018	Soil	1
93299.20	SSI-4-N-B-30"	07/17/2018	Soil	1
93299.22	SSI-4-N-C-30"	07/17/2018	Soil	1
93299.23	SSI-4-N-G-18"	07/17/2018	Soil	1
93299.24	SSI-4-N-G-30"	07/17/2018	Soil	1
93299.28	DUP47	07/17/2018	Soil	1
93299.30	SSI-4-W-D-6"	07/17/2018	Soil	1
93299.31	SSI-17-W-D-24"	07/17/2018	Soil	1
93299.32	SSI-17-W-D-48"	07/17/2018	Soil	1
93299.35	SSI-17-W-A-48"	07/17/2018	Soil	1
93299.38	SSI-17-W-C-48"	07/17/2018	Soil	1
93299.39	SSI-17-W-G-6"	07/17/2018	Soil	1

Continued

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Project ID: LASD1-32.7
Date Received 07/18/2018
Date Reported 09/07/2018

Job Number	Order Date	Client
93299	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93299.40	SSI-17-W-G-24"	07/17/2018	Soil	1
93299.41	SSI-17-W-G-48"	07/17/2018	Soil	1
93299.42	SSI-17-W-F-6"	07/17/2018	Soil	1
93299.43	SSI-17-W-F-24"	07/17/2018	Soil	1
93299.44	SSI-17-W-F-48"	07/17/2018	Soil	1
93299.47	SSI-17-W-B-48"	07/17/2018	Soil	1
93299.49	SSI-17-W-60"	07/17/2018	Soil	1
93299.50	SSI-17-W-90"	07/17/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/23/2018	4	Rush	--

93299.07	SSI-7-S-A-18"	07/17/2018	Soil	1
93299.09	SSI-7-S-C-18"	07/17/2018	Soil	1
93299.13	SSI-7-S-B-18"	07/17/2018	Soil	1
93299.14	SSI-7-S-B-30"	07/17/2018	Soil	1
93299.15	SSI-7-S-F-18"	07/17/2018	Soil	1
93299.19	SSI-4-N-B-18"	07/17/2018	Soil	1
93299.21	SSI-4-N-C-18"	07/17/2018	Soil	1
93299.25	SSI-4-N-A-18"	07/17/2018	Soil	1
93299.27	SSI-4-N-D-18"	07/17/2018	Soil	1
93299.29	SSI-4-N-D-30"	07/17/2018	Soil	1
93299.33	SSI-17-W-A-6"	07/17/2018	Soil	1
93299.34	SSI-17-W-A-24"	07/17/2018	Soil	1
93299.36	SSI-17-W-C-6"	07/17/2018	Soil	1
93299.37	SSI-17-W-C-24"	07/17/2018	Soil	1
93299.45	SSI-17-W-B-6"	07/17/2018	Soil	1
93299.46	SSI-17-W-B-24"	07/17/2018	Soil	1
93299.48	SSI-17-W-48"	07/17/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/23/2018	4	Rush	mg/Kg

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
93299	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93299.26	SSI-4-N-A-30"	07/17/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(6010/7000TCLP) ^ AS	07/23/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/23/2018	4	Rush	mg/L
(6020) ^ AS	07/23/2018	4	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

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Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C7

Our Lab I.D.			Method Blank	93299.07	93299.09	93299.13	
Client Sample I.D.				SSI-7-S-A-18 "	SSI-7-S-C-18 "	SSI-7-S-B-18 "	
Date Sampled				07/17/2018	07/17/2018	07/17/2018	
Date Prepared			07/18/2018	07/18/2018	07/18/2018	07/18/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			07/19/2018	07/19/2018	07/19/2018	07/19/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	ND	8.72	6.54	12.4	

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Page: **3**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C6

Our Lab I.D.			Method Blank	93299.14	93299.15		
Client Sample I.D.				SSI-7-S-B-30"	SSI-7-S-F-18"		
Date Sampled				07/17/2018	07/17/2018		
Date Prepared			07/25/2018	07/25/2018	07/25/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/26/2018	07/26/2018	07/26/2018		
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	4.86	8.30		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C7

Our Lab I.D.			93299.19	93299.21	93299.25		
Client Sample I.D.			SSI-4-N-B-18 "	SSI-4-N-C-18 "	SSI-4-N-A-18 "		
Date Sampled			07/17/2018	07/17/2018	07/17/2018		
Date Prepared			07/18/2018	07/18/2018	07/18/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/19/2018	07/19/2018	07/19/2018		
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	7.59	10.0	12.2		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C6

Our Lab I.D.			93299.26	93299.27			
Client Sample I.D.			SSI-4-N-A-30 "	SSI-4-N-D-18 "			
Date Sampled			07/17/2018	07/17/2018			
Date Prepared			07/25/2018	07/25/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/26/2018	07/26/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	52.9	30.4			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93299.29				
Client Sample I.D.			SSI-4-N-D-30 "				
Date Sampled			07/17/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	17.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C7

Our Lab I.D.			93299.33				
Client Sample I.D.			SSI-17-W-A-6"				
Date Sampled			07/17/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	6.35				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8

Our Lab I.D.			Method Blank	**93299.34**			
Client Sample I.D.				SSI-17-W-A-24"			
Date Sampled				**07/17/2018**			
Date Prepared			**07/27/2018**	**07/27/2018**			
Preparation Method			**3050B**	**3050B**			
Date Analyzed			**07/30/2018**	**07/30/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	**0.05**	**0.10**	**ND**	**3.77**			

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Page: **10**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C7

Our Lab I.D.			93299.36				
Client Sample I.D.			SSI-17-W-C-6"				
Date Sampled			07/17/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.02				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8

Our Lab I.D.			93299.37				
Client Sample I.D.			SSI-17-W-C-24"				
Date Sampled			07/17/2018				
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.99				

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Page: **12**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C7

Our Lab I.D.			93299.45				
Client Sample I.D.			SSI-17-W-B-6"				
Date Sampled			07/17/2018				
Date Prepared			07/18/2018				
Preparation Method			3050B				
Date Analyzed			07/19/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	11.1				

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Page: **13**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8

Our Lab I.D.			93299.46				
Client Sample I.D.			SSI-17-W-B-24"				
Date Sampled			07/17/2018				
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	6.12				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C7

Our Lab I.D.			**93299.48**				
Client Sample I.D.			SSI-17-W-48"				
Date Sampled			**07/17/2018**				
Date Prepared			**07/18/2018**				
Preparation Method			**3050B**				
Date Analyzed			**07/19/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	**0.05**	**0.10**	**3.57**				

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **15**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**08/24/2018**				
Preparation Method			**1311**				
Date Analyzed			**08/27/2018**				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	**0.05**	**0.10**	**ND**				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15

Our Lab I.D.			93299.26				
Client Sample I.D.			SSI-4-N-A-30 "				
Date Sampled			07/17/2018				
Date Prepared			08/24/2018				
Preparation Method			1311				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

Comment(s):
93299.26: Analyzed under dilution due to matrix interference

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2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **18**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			93299.26				
Client Sample I.D.			SSI-4-N-A-30 "				
Date Sampled			07/17/2018				
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	ND				

Comment(s):
93299.26: Analyzed under dilution due to matrix interference

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QUALITY CONTROL RESULTS

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Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15; Dup or Spiked Sample: 93736.02; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0824182C15; Dup or Spiked Sample: 93736.02; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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 (TCLP)	**10.0**	**9.79**	**97.9**	**10.0**	**9.87**	**98.7**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16; Dup or Spiked Sample: 93736.01; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**12.7**	**13.1**	**3.1**	**<20**						

QC Batch No: 0824182C16; Dup or Spiked Sample: 93736.01; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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**	**9.98**	**99.8**	**10.0**	**9.75**	**97.5**	**2.3**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0718181C7; Dup or Spiked Sample: 93299.07; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**8.72**	**1.00**	**8.71 M**	**-0.9**	**1.00**	**8.42 M**	**-29.9**	**<1**	**80-120**	**<15**

QC Batch No: 0718181C7; Dup or Spiked Sample: 93299.07; LCS: Clean Sand; QC Prepared: 07/18/2018; QC Analyzed: 07/19/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.878**	**87.8**	**1.00**	**0.886**	**88.6**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C6; Dup or Spiked Sample: 93299.14; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**4.86**	**1.00**	**5.43 #**	**57.0**	**1.00**	**5.34 #**	**48.0**	**17.1**	**80-120**	**<15**

QC Batch No: 0725181C6; Dup or Spiked Sample: 93299.14; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.06**	**106**	**1.00**	**1.05**	**105**	**<1**	**80-120**	**<15**	

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Los Angeles, CA 90002

Page: **23**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8; Dup or Spiked Sample: 93299.34; LCS: Clean Sand; QC Prepared: 07/27/2018; QC Analyzed: 07/30/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.77**	**1.00**	**5.20 #**	**143**	**1.00**	**5.25 #**	**148**	**3.4**	**80-120**	**<15**

QC Batch No: 0727181C8; Dup or Spiked Sample: 93299.34; LCS: Clean Sand; QC Prepared: 07/27/2018; QC Analyzed: 07/30/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.02**	**102**	**1.00**	**1.02**	**102**	**<1**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Site

David Starr Jordan Senior HS
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Los Angeles, CA 90002

Page: **24**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93299	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.32**	**1.00**	**4.11**	**79.0**	**1.00**	**4.07**	**75.0**	**5.2**	**80-120**	**<15**

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.04**	**104**	**1.00**	**1.03**	**103**	**<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

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Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**35**
Date Received	**07/18/2018**
Date Reported	**08/27/2018**

Job Number	Order Date	Client
93323	07/18/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 14 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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CHAIN OF CUSTODY RECORD

105328

AETL JOB No. 93323

Page 1 of 9

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD STE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LA-PL-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS 2265 E. 103rd St LA CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 AS	6020 Pb	Hold	TEST INSTRUCTIONS & COMMENTS
											* (2) 7/24 3 DAYS * (0) * (0)
1	SSI-18-W-D-6"		7/18/18	0753	Soil	Lacetate sleeve	ice	*		X	93323.01
2	SSI-18-W-D-24"			0754						X	93323.02
3	SSI-18-W-D-36"			0755						X	93323.03
4	SSI-18-W-A-6"			0756				X			93323.04
5	SSI-18-W-A-24"			0757				*		X	93323.05
6	SSI-18-W-A-36"			0758						X	93323.06
7	SSI-18-W-C-6"			0759				X			93323.07
8	SSI-18-W-C-24"			0800						X	93323.08
9	SSI-18-W-C-36"			0801						X	93323.09
10	SSI-18-W-G-6"			0802						X	93323.10
11	SSI-18-W-G-24"			0803						X	93323.11
12	SSI-18-W-G-36"			0804						X	93323.12
13	SSI-18-W-F-6"			0805						X	93323.13
14	SSI-18-W-F-24"			0806						X	93323.14
15	SSI-18-W-F-36"		↓	0807	↓	↓	↓			X	93323.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. PACHECO
	Date: 7/18/18 Time: 1530	Date: Time:	Date: 7/18/18 Time: 1710
RECEIVED BY:	Signature:	Signature:	Signature:
	Printed Name: CHARLTON PACHECO	Printed Name:	Printed Name: Jean Claude
	Date: 7/18/18 Time: 1530	Date: Time:	Date: 07/19/18 Time: 1710

RECEIVED BY LABORATORY: AETL

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

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CHAIN OF CUSTODY RECORD

105329

AETL JOB No. 93323

COMPANY: PLACEWORKS
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PROJECT MANAGER: MIKE WATSON
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-327
SITE NAME AND ADDRESS: David Starr Jordan SHS, 2265 E. 103rd St LA CA 90002
PO #:

ANALYSIS REQUESTED: 6020 As; 6020 Pb; STLC/TCLP LSAD; Hold

TEST INSTRUCTIONS & COMMENTS:
* (0)
* (1) 7/25 3 DAYS (TOTAL)
(2) 7/25 Normal (STLC/TCLP)
* (0)

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	STLC/TCLP LSAD	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-18-W-B-6"		7/18/18	0808	S-1	Encore Sleeve	ice	*				93323.16
2	SSI-18-W-B-24"			0809								93323.17
3	SSI-18-W-B-36"			0810								93323.18
4	SSI-38-D-6"			0854							X	93323.19
5	SSI-38-D-18"			0855							X	93323.20
6	SSI-38-D-36"			0856							X	93323.21
7	SSI-38-D-48"			0857							X	93323.22
8	SSI-38-A-6"			0858				X	X	*		93323.23
9	DUP 48							X	X			93323.24
10	SSI-38-A-18"			0859					X		X	93323.25 TCLP 6020 Pb
11	SSI-38-A-36"			0900							X	93323.26
12	DUP 49										X	93323.27
13	SSI-38-A-48"			0901							X	93323.28
14	SSI-38-C-6"			0902				X	X	*		93323.29
15	SSI-38-C-18"			0903					X			93323.30

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		C. PACHECO
Date / Time:	7/18/18 1530		7/18/18 1710
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			
Printed Name:	CHARLTON MACMILLAN		Leon Lande
Date / Time:	7/18/18 1530		07/18/18 1710

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

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CHAIN OF CUSTODY RECORD

105330

AETL JOB No. 93323

Page 3 of 7

COMPANY: PLACEWORKS
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITES ONTARIO CA 91764
PROJECT MANAGER: MIKE WATSON
PHONE: 909 989 4949
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS, 2265 E. 103rd St LA CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-38-C-36"		7/18/18	0904	Soil	1 brass sleeve	ice
2	SSI-38-C-48"			0905			
3	SSI-38-G-6"			0908			
4	SSI-38-G-18"			0909			
5	SSI-38-G-36"			0910			
6	SSI-38-G-48"			0911			
7	SSI-38-F-6"			0912			
8	SSI-38-F-18"			0913			
9	SSI-38-F-36"			0914			
10	SSI-38-F-48"			0915			
11	SSI-38-B-6"			0920			
12	SSI-38-B-18"			0921			
13	SSI-38-B-36"			0922			
14	SSI-38-B-48"			0923			
15	SSI-40-F-6"			0955			

ANALYSIS REQUESTED

6020 As	6020 Pb	STLC/TCLP LEAD	HOLD
			X
			X
*	*	*	X
*			X
			X
			X
			X
			X
			X
			X
X	X		
X	X		
			X
			X
			X

TEST INSTRUCTIONS & COMMENTS

*(1) 7/24 3 DAYS
*(0)
*(1) 7/30 (N) (TCLP/STLC)
(1) 7/30 3 DAYS (TOTAL)

93323.31
93323.32
93323.33
93323.34
93323.35
93323.36
93323.37
93323.38
93323.39
93323.40
93323.41
93323.42
93323.43
93323.44
93323.45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		C. PHILLIPS
Date: / Time:	7/18/18 1530	/	7/18/18 1710
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	C. PHILLIPS		Sean Saunders
Date: / Time:	7/18/18 1530	/	7/18/18 1710

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

JIM LIN 93323

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, July 24, 2018 4:00 PM
To: JIM LIN
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 with a 3 day RUSH TAT:

SSI-18-W-A-24"
SSI-18-W-D-6"
SSI-30-N-A-24"
SSI-30-N-B-24"
SSI-30-N-D-6"
SSI-30-N-F-6"
SSI-30-S-60"
SSI-30-S-A-36"
SSI-30-S-B-24"
SSI-30-S-B-36"

Lastly, please run SSI-38-G-6" for lead by EPA Method 6020 with a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 1:30 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93323, 93324, 93325

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 25, 2018 1:38 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018
Attachments: image001.jpg; image002.jpg

Please run SSI-38-A-6" and SSI-38-C-6" for lead STLC and TCLP using a normal TAT.

Please run SSI-30-S-36" and SSI-30-S-B-6" for arsenic STLC and TCLP using a normal TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 1:30 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93323, 93324, 93325

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Thursday, July 26, 2018 9:29 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Hi Jim,

Please run SSI-18-W-B-6" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,
-Mike

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 1:30 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93323, 93324, 93325

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 9:06 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-38-G-18" for lead by EPA Method 6020 using a 3 day RUSH TAT.

Please run SSI-30-S-D-6" and SSI-30-S-D-36" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, July 27, 2018 6:59 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93323, 93324, 93325

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 9:09 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018
Attachments: image001.jpg; image003.jpg; image004.jpg

Hi Jim,

In addition, please run SSI-38-G-6" for lead STLC and TCLP using a normal TAT.

Also, please run SSI-30-S-B-24" and SSI-30-S-B-36" for arsenic STLC and TCLP using a normal TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: Mike Watson
PLACEWORKS
Sent: Monday, July 30, 2018 9:06 AM
To: 'JIM LIN'
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Hi Jim,

Please run SSI-38-G-18" for lead by EPA Method 6020 using a 3 day RUSH TAT.

Please run SSI-30-S-D-6" and SSI-30-S-D-36" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com
PLACEWORKS

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COOLER RECEIPT FORM

Client Name: Place Works

Project Name:

AETL Job Number: 93323, 93324 & 93325

Date Received: 07/12/12 Received by: Jean Canda

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

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 27°C, No 2: _____, No 3: _____

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

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/18/2018
Date Reported 08/27/2018

Job Number	Order Date	Client
93323	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 45 samples with the following specification on 07/18/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93323.01	SSI-18-W-D-6"	07/18/2018	Soil	1
93323.04	SSI-18-W-A-6"	07/18/2018	Soil	1
93323.05	SSI-18-W-A-24"	07/18/2018	Soil	1
93323.07	SSI-18-W-C-6"	07/18/2018	Soil	1
93323.16	SSI-18-W-B-6"	07/18/2018	Soil	1
	Method ^ Submethod	***Req Date***	***Priority***	***TAT***	***Units***
	(6020) ^ AS	07/25/2018	2	Normal	mg/Kg
93323.02	SSI-18-W-D-24"	07/18/2018	Soil	1
93323.03	SSI-18-W-D-36"	07/18/2018	Soil	1
93323.06	SSI-18-W-A-36"	07/18/2018	Soil	1
93323.08	SSI-18-W-C-24"	07/18/2018	Soil	1
93323.09	SSI-18-W-C-36"	07/18/2018	Soil	1
93323.10	SSI-18-W-G-6"	07/18/2018	Soil	1
93323.11	SSI-18-W-G-24"	07/18/2018	Soil	1
93323.12	SSI-18-W-G-36"	07/18/2018	Soil	1
93323.13	SSI-18-W-F-6"	07/18/2018	Soil	1
93323.14	SSI-18-W-F-24"	07/18/2018	Soil	1
93323.15	SSI-18-W-F-36"	07/18/2018	Soil	1
93323.17	SSI-18-W-B-24"	07/18/2018	Soil	1
93323.18	SSI-18-W-B-36"	07/18/2018	Soil	1
93323.19	SSI-38-D-6"	07/18/2018	Soil	1
93323.20	SSI-38-D-18"	07/18/2018	Soil	1
93323.21	SSI-38-D-36"	07/18/2018	Soil	1
93323.22	SSI-38-D-48"	07/18/2018	Soil	1
93323.26	SSI-38-A-36"	07/18/2018	Soil	1

Continued

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/18/2018
Date Reported 08/27/2018

Job Number	Order Date	Client
93323	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93323.27	DUP49	07/18/2018	Soil	1
93323.28	SSI-38-A-48"	07/18/2018	Soil	1
93323.31	SSI-38-C-36"	07/18/2018	Soil	1
93323.32	SSI-38-C-48"	07/18/2018	Soil	1
93323.35	SSI-38-G-36"	07/18/2018	Soil	1
93323.36	SSI-38-G-48"	07/18/2018	Soil	1
93323.37	SSI-38-F-6"	07/18/2018	Soil	1
93323.38	SSI-38-F-18"	07/18/2018	Soil	1
93323.39	SSI-38-F-36"	07/18/2018	Soil	1
93323.40	SSI-38-F-48"	07/18/2018	Soil	1
93323.43	SSI-38-B-36"	07/18/2018	Soil	1
93323.44	SSI-38-B-48"	07/18/2018	Soil	1
93323.45	SSI-38-F-6"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/25/2018	2	Normal	--

93323.23	SSI-38-A-6"	07/18/2018	Soil	1
93323.29	SSI-38-C-6"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	07/25/2018	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	07/25/2018	2	Normal	mg/L
(6020) ^ AS	07/25/2018	2	Normal	mg/Kg
(6020) ^ PB	07/25/2018	2	Normal	mg/Kg

93323.24	DUP48	07/18/2018	Soil	1
93323.41	SSI-38-B-6"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/25/2018	2	Normal	mg/Kg
(6020) ^ PB	07/25/2018	2	Normal	mg/Kg

93323.25	SSI-38-A-18"	07/18/2018	Soil	1
93323.30	SSI-38-C-18"	07/18/2018	Soil	1
93323.34	SSI-38-G-18"	07/18/2018	Soil	1

Continued

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91264**	**Project ID: LASD1-32.7** **Date Received 07/18/2018** **Date Reported 08/27/2018**
Telephone: (909)989-4449 **Attention: Mike Watson**	

Job Number	Order Date	Client
93323	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

93323.42	SSI-38-B-18"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	07/25/2018	2	Normal	mg/Kg

93323.33	SSI-38-G-6"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	07/25/2018	2	Normal	mg/L
(6010B-STLC) ^ STLC-PB	07/25/2018	2	Normal	mg/L
(6020) ^ PB	07/25/2018	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C6

Our Lab I.D.			Method Blank	93323.01			
Client Sample I.D.				SSI-18-W-D-6"			
Date Sampled				07/18/2018			
Date Prepared			07/25/2018	07/25/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/26/2018	07/26/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	8.51			

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **3**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson
Page: **4**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C3

Our Lab I.D.			93323.04				
Client Sample I.D.			SSI-18-W-A-6"				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	15.5				

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **5**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C6

Our Lab I.D.			93323.05				
Client Sample I.D.			SSI-18-W-A-24"				
Date Sampled			07/18/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.04				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C3

Our Lab I.D.			93323.07				
Client Sample I.D.			SSI-18-W-C-6"				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	10.7				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1

Our Lab I.D.			Method Blank	93323.16			
Client Sample I.D.				SSI-18-W-B-6"			
Date Sampled				07/18/2018			
Date Prepared			07/31/2018	07/31/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/01/2018	08/01/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	3.73			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C3

Our Lab I.D.			93323.23	93323.24	93323.29	93323.41	
Client Sample I.D.			SSI-38-A-6"	DUP48	SSI-38-C-6"	SSI-38-B-6"	
Date Sampled			07/18/2018	07/18/2018	07/18/2018	07/18/2018	
Date Prepared			07/20/2018	07/20/2018	07/20/2018	07/20/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			07/23/2018	07/23/2018	07/23/2018	07/23/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	8.41	3.04	5.34	6.14	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C1

Our Lab I.D.			93323.23				
Client Sample I.D.			SSI-38-A-6"				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	53.1				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C1

Our Lab I.D.			93323.24	93323.25			
Client Sample I.D.			DUP48	SSI-38-A-18"			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			07/20/2018	07/20/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/23/2018	07/23/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	11.0	6.20			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C1

Our Lab I.D.			93323.29				
Client Sample I.D.			SSI-38-C-6"				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Lead	12	25	139				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C1

Our Lab I.D.			93323.30				
Client Sample I.D.			SSI-38-C-18"				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	5.66				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0725181C6

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0725181C6

Our Lab I.D.			93323.33				
Client Sample I.D.			SSI-38-G-6"				
Date Sampled			07/18/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Lead	12	25	103				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0801181C2

Our Lab I.D.			Method Blank	93323.34			
Client Sample I.D.				SSI-38-G-18"			
Date Sampled				07/18/2018			
Date Prepared			08/01/2018	08/01/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/02/2018	08/02/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	ND	6.19			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C1

Our Lab I.D.			93323.41	93323.42			
Client Sample I.D.			SSI-38-B-6"	SSI-38-B-18"			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			07/20/2018	07/20/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/23/2018	07/23/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	2.50	5	35.6	14.7			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C3

Our Lab I.D.			93323.23	93323.29			
Client Sample I.D.			SSI-38-A-6"	SSI-38-C-6"			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			07/27/2018	07/27/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			07/30/2018	07/30/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead (STLC)	0.50	1.00	2.50	11.7			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/01/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			93323.33				
Client Sample I.D.			SSI-38-G-6"				
Date Sampled			07/18/2018				
Date Prepared			08/01/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	2.49				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**07/27/2018**				
Preparation Method			**1311**				
Date Analyzed			**07/30/2018**				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	**0.05**	**0.10**	**ND**				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			93323.23	93323.29			
Client Sample I.D.			SSI-38-A-6"	SSI-38-C-6"			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			07/27/2018	07/27/2018			
Preparation Method			1311	1311			
Date Analyzed			07/30/2018	07/30/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead (TCLP)	0.50	1.00	ND	ND			

Comment(s):
93323.23: Analyzed under dilution due to matrix interference 93323.29: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/02/2018				
Preparation Method			1311				
Date Analyzed			08/04/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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ANALYTICAL RESULTS

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11

Our Lab I.D.			93323.33				
Client Sample I.D.			SSI-38-G-6"				
Date Sampled			07/18/2018				
Date Prepared			08/02/2018				
Preparation Method			1311				
Date Analyzed			08/04/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.50	1.00	ND				

Comment(s):
93323.33: Analyzed under dilution due to matrix interference

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QUALITY CONTROL RESULTS

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5; Dup or Spiked Sample: 93346.13; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0727182C5; Dup or Spiked Sample: 93346.13; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; 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	
Lead (TCLP)	**10.0**	**8.93**	**89.3**	**10.0**	**8.97**	**89.7**	**<1**	**80-120**	**<15**	

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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0802182C11; Dup or Spiked Sample: 93282.02; LCS: Clean Sand; LCS Prepared: 08/02/2018; LCS Analyzed: 08/04/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0802182C11; Dup or Spiked Sample: 93282.02; LCS: Clean Sand; LCS Prepared: 08/02/2018; LCS Analyzed: 08/04/2018; 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	
Lead (TCLP)	**10.0**	**8.84**	**88.4**	**10.0**	**8.70**	**87.0**	**1.60**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C3; Dup or Spiked Sample: 93309.22; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0727182C3; Dup or Spiked Sample: 93309.22; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; 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	
Lead (STLC)	**10.0**	**9.56**	**95.6**	**10.0**	**9.41**	**94.1**	**1.6**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3; Dup or Spiked Sample: 93282.04; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**0.850**	**0.830**	**2.4**	**<20**						

QC Batch No: 0801182C3; Dup or Spiked Sample: 93282.04; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; 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	
Lead (STLC)	**10.0**	**8.77**	**87.7**	**10.0**	**8.81**	**88.1**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C3; Dup or Spiked Sample: 93323.04; LCS: Clean Sand; LCS Prepared: 07/20/2018; LCS Analyzed: 07/23/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.07**	**107**	**1.00**	**1.04**	**104**	**2.8**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C6; Dup or Spiked Sample: 93299.14; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**4.86**	**1.00**	**5.43 #**	**57.0**	**1.00**	**5.34 #**	**48.0**	**17.1**	**80-120**	**<15**

QC Batch No: 0725181C6; Dup or Spiked Sample: 93299.14; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.06**	**106**	**1.00**	**1.05**	**105**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0731181C1; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**15.6**	**1.00**	**16.2 #**	**60.0**	**1.00**	**15.9 #**	**30.0**	**66.7**	**80-120**	**<15**

QC Batch No: 0731181C1; Dup or Spiked Sample: 93259.16; LCS: Clean Sand; QC Prepared: 07/31/2018; QC Analyzed: 08/01/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.978**	**97.8**	**1.00**	**0.952**	**95.2**	**2.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C1; LCS: Clean Sand; LCS Prepared: 07/20/2018; LCS Analyzed: 07/23/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.937**	**93.7**	**1.00**	**0.948**	**94.8**	**1.2**	**75-125**	**<15**	

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Site

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2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0725181C6; Dup or Spiked Sample: 93299.14; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**8.10**	**1.00**	**9.00**	**90.1**	**1.00**	**8.99**	**88.5**	**1.8**	**75-125**	**<15**

QC Batch No: 0725181C6; Dup or Spiked Sample: 93299.14; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.988**	**98.8**	**1.00**	**0.975**	**97.5**	**1.3**	**75-125**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93323	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**4.16**	**1.00**	**5.23**	**107**	**1.00**	**5.19**	**103**	**3.81**	**75-125**	**<15**

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.950**	**94.6**	**1.00**	**0.940**	**93.6**	**1.06**	**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

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Number of Pages	**13**
Date Received	**07/18/2018**
Date Reported	**08/27/2018**

Job Number	Order Date	Client
93324	07/18/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 12 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

105331

AETL JOB No. 93324

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2830 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St LA CA 90002
PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	Hold	TEST INSTRUCTIONS & COMMENTS
										*(0)
1 SSI-40-F-18"		7/18/18	0956	soil	acetate sleeve	ice			X	93324.01
2 SSI-40-F-36"			0957						X	93324.02
3 SSI-40-B-6"			0958					X		93324.03
4 SSI-40-B-18"			0959						X	93324.04
5 SSI-40-B-36"			1000						X	93324.05
6 SSI-40-C-6"			1001					X		93324.06
7 SSI-40-C-18"			1002						X	93324.07
8 SSI-40-C-36"			1003						X	93324.08
9 SSI-40-G-6"			1004						X	93324.09
10 SSI-40-G-18"			1005						X	93324.10
11 SSI-40-G-36"			1006						X	93324.11
12 SSI-40-A-6"			1008					X		93324.12
13 SSI-40-A-18"			1009						X	93324.13
14 SSI-40-A-36"			1010						X	93324.14
15 SSI-40-D-6"			1013	↓	↓	↓			X	93324.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☒ PDF
☐ GEOTRACKER (GLOBAL ID) ______
☐ OTHER (PLEASE SPECIFY) ______

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 7/18/18 Time: 1530	Signature: Printed Name: Date: Time:	Signature: [signature] Printed Name: C. PALMILLAO Date: 7/18/18 Time: 1710
RECEIVED BY	Signature: [signature] Printed Name: CHANTON PALMILLAO Date: 7/18/18 Time: 1530	Signature: Printed Name: Date: Time:	LABORATORY: AETL Signature: Printed Name: [signature] Date: 07/18/18 Time: 1710

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CHAIN OF CUSTODY RECORD

105332

AETL JOB No. 93324

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COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B, ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS, 2265 E 103rd St LA CA 90002
PO #:

ANALYSIS REQUESTED / TEST INSTRUCTIONS & COMMENTS: *(1) 7/24; 3 DAYS TAT

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-40-D-18"		7/18/18	1014	Soil	1 acetate sleeve	ice			X	93324.16
2	SSI-40-D-36"		↓	1015	↓	↓				X	93324.17
3	SSI-30-N-F-6"			1045						X	93324.18
4	SSI-30-N-F-24"			1046						X	93324.19
5	SSI-30-N-F-36"			1047						X	93324.20
6	SSI-30-N-B-6"			1048				X			93324.21
7	SSI-30-N-B-24"			1049				*		X	93324.22
8	SSI-30-N-B-36"			1050						X	93324.23
9	SSI-30-N-C-6"			1051				X			93324.24
10	SSI-30-N-C-24"			1052						X	93324.25
11	SSI-30-N-C-36"			1053						X	93324.26
12	SSI-30-N-G-6"			1054						X	93324.27
13	SSI-30-N-G-24"			1055						X	93324.28
14	SSI-30-N-G-36"			1056						X	93324.29
15	SSI-30-N-A-6"		↓	1057	↓	↓		X			93324.30

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

	1.	2.	3.
RELINQUISHED BY (1. SAMPLER) — Signature	[signature]		[signature]
Printed Name	MIKE WATSON		C. Palomino
Date / Time	7/18/18 1530		7/18/18 1710
RECEIVED BY (3. LABORATORY) — Signature	[signature]		AETL [signature]
Printed Name	Hamilton Pagulayan		Stan Claude
Date / Time	7/18/18 1530		7/18/18 1710

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

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CHAIN OF CUSTODY RECORD

105333

AETL JOB No. 93324

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2830 INLAND EMPIRE BL SUITE 1[illegible] ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St LA CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	6020 As	HOLD	TEST INSTRUCTIONS & COMMENTS
												*(3) 7/24 3 DAYS TAT
1	SSI-30-N-A-24"		7/18/18	1058	Soil	[illegible] Sleeve	Ice	*			X	93324.31
2	SSI-30-N-A-36"		↓	1059	↓	↓	↓				X	93324.32
3	SSI-30-N-D-6"			1100				(MX)		*	X	HOLD 93324.33
4	SSI-30-N-D-24"			1101							X	93324.34
5	SSI-30-N-D-36"			1102							X	93324.35
6	SSI-30-W-F-6"			1225				*			X	93324.36
7	SSI-30-W-F-24"			1226							X	93324.37
8	SSI-30-WF-36"			1227							X	93324.38
9	SSI-30-W-B-6"			1228				X				93324.39
10	SSI-30-W-B-24"			1229							X	93324.40
11	SSI-30-W-B-36"			1230							X	93324.41
12	SSI-30-W-C-6"			1231				X				93324.42
13	SSI-30-W-C-24"			1232							X	93324.43
14	SSI-30-W-C-36"			1233							X	93324.44
15	SSI-30-W-G-6"		↓	1234	↓	↓	↓				X	93324.45

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

	1.	2.	3.
	RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature	[signature]		[signature]
Printed Name	MIKE WATSON		C. [illegible]
Date / Time	7/18/18 1530		7/18/18 1710
	RECEIVED BY:	RECEIVED BY:	RECEIVED BY LABORATORY: AETL
Signature	[signature]		[signature]
Printed Name	CHARLTON [illegible]		[illegible]
Date / Time	7/18/18 1530		07/18/18 1710

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

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COOLER RECEIPT FORM

Client Name: Place Works

Project Name:

AETL Job Number: 93323, 93324 & 93325

Date Received: 07/13/10 Received by: Jean Sandi

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

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 2.7°C, No 2: _____, No 3: _____

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

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

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

Explain all "No" answers for above questions:

JIM LIN 93324

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, July 24, 2018 4:00 PM
To: JIM LIN
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 with a 3 day RUSH TAT:

SSI-18-W-A-24"
SSI-18-W-D-6"
SSI-30-N-A-24"
SSI-30-N-B-24"
SSI-30-N-D-6"
SSI-30-N-F-6"
SSI-30-S-60"
SSI-30-S-A-36"
SSI-30-S-B-24"
SSI-30-S-B-36"

Lastly, please run SSI-38-G-6" for lead by EPA Method 6020 with a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 1:30 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93323, 93324, 93325

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/18/2018
Date Reported 07/24/2018

Job Number	Order Date	Client
93324	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 45 samples with the following specification on 07/18/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93324.01	SSI-40-F-18"	07/18/2018	Soil	1
93324.02	SSI-40-F-36"	07/18/2018	Soil	1
93324.04	SSI-40-B-18"	07/18/2018	Soil	1
93324.05	SSI-40-B-36"	07/18/2018	Soil	1
93324.07	SSI-40-C-18"	07/18/2018	Soil	1
93324.08	SSI-40-C-36"	07/18/2018	Soil	1
93324.09	SSI-40-G-6"	07/18/2018	Soil	1
93324.10	SSI-40-G-18"	07/18/2018	Soil	1
93324.11	SSI-40-G-36"	07/18/2018	Soil	1
93324.13	SSI-40-A-18"	07/18/2018	Soil	1
93324.14	SSI-40-A-36"	07/18/2018	Soil	1
93324.15	SSI-40-D-6"	07/18/2018	Soil	1
93324.16	SSI-40-D-18"	07/18/2018	Soil	1
93324.17	SSI-40-D-36"	07/18/2018	Soil	1
93324.18	SSI-30-N-F-6"	07/18/2018	Soil	1
93324.19	SSI-30-N-F-24"	07/18/2018	Soil	1
93324.20	SSI-30-N-F-36"	07/18/2018	Soil	1
93324.23	SSI-30-N-B-36"	07/18/2018	Soil	1
93324.25	SSI-30-N-C-24"	07/18/2018	Soil	1
93324.26	SSI-30-N-C-36"	07/18/2018	Soil	1
93324.27	SSI-30-N-G-6"	07/18/2018	Soil	1
93324.28	SSI-30-N-G-24"	07/18/2018	Soil	1
93324.29	SSI-30-N-G-36"	07/18/2018	Soil	1
93324.32	SSI-30-N-A-36"	07/18/2018	Soil	1

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/18/2018
Date Reported 07/24/2018

Job Number	Order Date	Client
93324	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

93324.34	SSI-30-N-D-24"	07/18/2018	Soil	1
93324.35	SSI-30-N-D-36"	07/18/2018	Soil	1
93324.37	SSI-30-W-F-24"	07/18/2018	Soil	1
93324.38	SSI-30-W-F-36"	07/18/2018	Soil	1
93324.40	SSI-30-W-B-24"	07/18/2018	Soil	1
93324.41	SSI-30-W-B-36"	07/18/2018	Soil	1
93324.43	SSI-30-W-C-24"	07/18/2018	Soil	1
93324.44	SSI-30-W-C-36"	07/18/2018	Soil	1
93324.45	SSI-30-W-G-6"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/25/2018	2	Normal	--

93324.03	SSI-40-B-6"	07/18/2018	Soil	1
93324.06	SSI-40-C-6"	07/18/2018	Soil	1
93324.12	SSI-40-A-6"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	07/25/2018	2	Normal	mg/Kg

93324.21	SSI-30-N-B-6"	07/18/2018	Soil	1
93324.22	SSI-30-N-B-24"	07/18/2018	Soil	1
93324.24	SSI-30-N-C-6"	07/18/2018	Soil	1
93324.30	SSI-30-N-A-6"	07/18/2018	Soil	1
93324.31	SSI-30-N-A-24"	07/18/2018	Soil	1
93324.33	SSI-30-N-D-6"	07/18/2018	Soil	1
93324.36	SSI-30-W-F-6"	07/18/2018	Soil	1
93324.39	SSI-30-W-B-6"	07/18/2018	Soil	1
93324.42	SSI-30-W-C-6"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/25/2018	2	Normal	mg/Kg

Continued

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Ordered By

Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91764**	**Project ID: LASD1-32.7** **Date Received 07/18/2018** **Date Reported 07/24/2018**

Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
93324	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Placeworks
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Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson
Page: **2**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
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: (909)989-4449
Attn: Mike Watson
Page: **3**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C4

Our Lab I.D.			93324.21				
Client Sample I.D.			SSI-30-N-B-6 "				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	13.6				

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ANALYTICAL RESULTS

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Page: **4**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C7

Our Lab I.D.			Method Blank	93324.22			
Client Sample I.D.				SSI-30-N-B-2 4"			
Date Sampled				07/18/2018			
Date Prepared			07/25/2018	07/25/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/26/2018	07/26/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	2.99			

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ANALYTICAL RESULTS

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **5**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C4

Our Lab I.D.			93324.24				
Client Sample I.D.			SSI-30-N-C-6 "				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.67				

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ANALYTICAL RESULTS

Ordered By

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Site

David Starr Jordan Senior HS
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Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C4

Our Lab I.D.			**93324.30**				
Client Sample I.D.			SSI-30-N-A-6 "				
Date Sampled			**07/18/2018**				
Date Prepared			**07/20/2018**				
Preparation Method			**3050B**				
Date Analyzed			**07/23/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	**0.50**	**1.00**	**13.9**				

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ANALYTICAL RESULTS

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Attn: Mike Watson
Page: **7**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C7

Our Lab I.D.			93324.31	93324.33	93324.36		
Client Sample I.D.			SSI-30-N-A-2 4"	SSI-30-N-D-6 "	SSI-30-W-F-6 "		
Date Sampled			07/18/2018	07/18/2018	07/18/2018		
Date Prepared			07/25/2018	07/25/2018	07/25/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/26/2018	07/26/2018	07/26/2018		
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	2.29	3.68	11.4		

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ANALYTICAL RESULTS

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Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **8**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C4

Our Lab I.D.			93324.39	93324.42			
Client Sample I.D.			SSI-30-W-B-6"	SSI-30-W-C-6"			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			07/20/2018	07/20/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/23/2018	07/23/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	2.90	3.07			

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 91764

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **9**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C2

Our Lab I.D.			Method Blank	93324.03	93324.06		
Client Sample I.D.				SSI-40-B-6"	SSI-40-C-6"		
Date Sampled				07/18/2018	07/18/2018		
Date Prepared			07/20/2018	07/20/2018	07/20/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/23/2018	07/23/2018	07/23/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	0.25	0.50	ND	5.51	5.25		

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ANALYTICAL RESULTS

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **10**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C2

Our Lab I.D.			93324.12				
Client Sample I.D.			SSI-40-A-6"				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	44.9				

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QUALITY CONTROL RESULTS

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **11**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C4; Dup or Spiked Sample: 93324.03; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/23/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**6.23**	**1.00**	**7.08**	**85.0**	**1.00**	**7.47 #**	**124**	**37.3**	**80-120**	**<15**

QC Batch No: 0720181C4; Dup or Spiked Sample: 93324.03; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/23/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.01**	**101**	**1.00**	**1.07**	**107**	**5.8**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Attn: Mike Watson
Page: **12**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C7; Dup or Spiked Sample: 93324.22; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**2.99**	**1.00**	**3.76 #**	**77.0**	**1.00**	**3.76 #**	**77.0**	**<1**	**80-120**	**<15**

QC Batch No: 0725181C7; Dup or Spiked Sample: 93324.22; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.02**	**102**	**1.00**	**1.05**	**105**	**2.9**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **13**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93324	07/18/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C2; Dup or Spiked Sample: 93324.03; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/23/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**5.51**	**1.00**	**7.33 #**	**182**	**1.00**	**7.39 #**	**188**	**3.2**	**75-125**	**<15**

QC Batch No: 0720181C2; Dup or Spiked Sample: 93324.03; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/23/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.923**	**92.3**	**1.00**	**0.952**	**95.2**	**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

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Ontario, CA 90002

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**31**
Date Received	**07/18/2018**
Date Reported	**08/27/2018**

Job Number	Order Date	Client
93325	07/18/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
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CHAIN OF CUSTODY RECORD

105334

AETL JOB No. 93325

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL SUITE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E 103rd St LA CA 90002
PO #:

ANALYSIS REQUESTED: 6020 As, 6020 Pb, HOLD

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	HOLD	TEST INSTRUCTIONS & COMMENTS
1	SSI-30-W-G-24"		7/18/18	1235	Soil	1 acetate sleeve	ice			X	93325.01
2	SSI-30-W-G-36"		↓	1236	↓	↓	↓			X	93325.02
3	SSI-30-W-A-6"		↓	1237	↓	↓	↓	X			93325-03
4	SSI-30-W-A-24"		↓	1238	↓	↓	↓			X	93325-04
5	SSI-30-W-A-36"		↓	1239	↓	↓	↓			X	93325.05
6	SSI-30-W-D-6"		↓	1240	↓	↓	↓			X	93325.06
7	~~SSI-30-W-D-24"~~			~~1241~~							
8	SSI-30-W-D-36"		7/18/18	1242	Soil	1 acetate sleeve	ice			X	93325.07
9	SSI-30-S-C-6"		↓	1303	↓	↓	↓	X			93325.08 SSI-30-S-C-6"
10	SSI-30-S-C-24"		↓	1304	↓	↓	↓			X	93325.09
11	SSI-30-S-C-36"		↓	1305	↓	↓	↓	⊛		X	93325.10
12	SSI-30-S-A-6"		↓	1306	↓	↓	↓	X			93325.11
13	DUP 50		↓		↓	↓	↓	X			93325.12
14	SSI-30-S-A-24"		↓	1307	↓	↓	↓			X	93325.13
15	DUP 51		↓		↓	↓	↓			X	93325.14

TEST INSTRUCTIONS & COMMENTS: ✱(0) ⊛(1) 7/25 3 DAYS ✱(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	14	PROPERLY COOLED	(Y) / N / NA
CUSTODY SEALS Y / (N) / NA		SAMPLES INTACT	(Y) / N / NA
RECEIVED IN GOOD COND. (Y) / N		SAMPLES ACCEPTED	(Y) / N

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature] Printed Name: MIKE WATSON Date: 7/18/18 Time: 1530	Signature: Printed Name: Date: Time:	Signature: [signature] Printed Name: C. Palmilao Date: 7/18/18 Time: 1710
RECEIVED BY	Signature: [signature] Printed Name: Chaiwin Palmilao Date: 7/18/18 Time: 1530	Signature: Printed Name: Date: Time:	LABORATORY: AETL Signature: [signature] Printed Name: Juan Claude Date: 07/18/18 Time: 1710

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

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CHAIN OF CUSTODY RECORD

105335

AETL JOB No. 93325

Page 8 of 9

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL, SUITE B, ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan Senior HS, 2265 E. 103rd St LA CA 90002
PO #:

TEST INSTRUCTIONS & COMMENTS:
✱ (4) 7/24 3 DAYS TAT
(✱) (2) 7/25 Normal (STLC/TCLP)
△✱ (2) 7/30 3 DAYS TAT (TOTAL)
(2) 7/30 Normal (STLC/TCLP)

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-30-S-A-36"		7/18/18	1308	Soil	1 acetate sleeve	ice
2	SSI-30-S-B-6"		↓	1309	↓	↓	↓
3	SSI-30-S-B-24"			1310			
4	SSI-30-S-B-36"			1311			
5	SSI-30-S-D-6"			1312			
6	SSI-30-S-D-24"			1313			
7	SSI-30-S-D-36"			1314			
8	SSI-30-S-36"			1326			
9	SSI-30-S-60"			1328			
10	SSI-31-E-F-6"			1342			
11	SSI-31-E-F-24"			1343			
12	SSI-31-E-F-36"			1344			
13	SSI-31-E-B-6"			1345			
14	SSI-31-E-B-24"			1346			
15	SSI-31-E-B-36"			1347			

ANALYSIS REQUESTED

#	6020 As	6020 Pb	STLC/TCLP As	Hold	Comments
1	✱			X	93325-15
2	X		(✱)		93325-16
3	✱		△✱	X	93325-17
4	✱		△✱	X	93325-18
5	△✱			X	93325-19
6				X	93325-20
7	△✱			X	93325-21
8	X		(✱)		93325-22
9	✱			X	93325-23
10				X	93325-24
11				X	93325-25
12				X	93325-26
13	X				93325-27
14				X	93325-28
15				X	93325-29

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature]; Printed Name: MIKE WATSON; Date: 7/18/18; Time: 1530	Signature: ; Printed Name: ; Date: ; Time:	Signature: [signature]; Printed Name: C. PAGMILAO; Date: 7/18/18; Time: 1710
RECEIVED BY	Signature: [signature]; Printed Name: CHAMPION PAGMILAO; Date: 7/18/18; Time: 1530	Signature: ; Printed Name: ; Date: ; Time:	LABORATORY: AETL; Signature: [signature]; Printed Name: Jean y Lande; Date: 07/18/18; Time: 1710

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

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CHAIN OF CUSTODY RECORD

106032

AETL JOB No. 93325

Page 9 of 9

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATEN
COMPANY ADDRESS: 2380 INLAND EMPIRE BL, SUITE B ONTARIO CA 91764
PHONE: 909 989 4949
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDI-327
SITE NAME AND ADDRESS: David Starr Jordan Senior HS 2265 E. 103rd St LA CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 AV	6020 PB	HAT	TEST INSTRUCTIONS & COMMENTS
1	SSI-31-E-C-6"		7/18/18	1348	Soil	1 acetate sleeve	ice	X			93325.30
2	SSI-31-E-C-24"			1349						X	93325-31
3	SSI-31-E-C-36"			1350						X	93325-32
4	SSI-31-E-A-6"			1351				X			93325-33
5	DUP 52							X			93325-34
6	SSI-31-E-A-24"			1352						X	93325-35
7	DUP 53									X	93325-36
8	SSI-31-E-A-36"			1353						X	93325-37
9	SSI-31-E-D-6"			1354						X	93325-38
10	SSI-31-E-D-24"			1355						X	93325-39
11	SSI-31-E-D-36"			1356						X	93325-40
12											
13											
14											
15											

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY:	SAMPLER:		
Signature:			
Printed Name:	MIKE WATEN		C. RAMIREZ
Date:	7/18/18		7/18/18
Time:	1530		1710
RECEIVED BY:	1.	2.	3.
Signature:			
Printed Name:	CHANNON RAMIREZ		
Date:	7/18/18		07/18/18
Time:	1530		1710
			RECEIVED BY LABORATORY: AETL

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

JIM LIN 93325

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, July 24, 2018 4:00 PM
To: JIM LIN
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 with a 3 day RUSH TAT:

SSI-18-W-A-24"
SSI-18-W-D-6"
SSI-30-N-A-24"
SSI-30-N-B-24"
SSI-30-N-D-6"
SSI-30-N-F-6"
SSI-30-S-60"
SSI-30-S-A-36"
SSI-30-S-B-24"
SSI-30-S-B-36"

Lastly, please run SSI-38-G-6" for lead by EPA Method 6020 with a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 1:30 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA".

AETL Job No: 93323, 93324, 93325

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 25, 2018 1:16 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018
Attachments: image001.jpg; image003.jpg

Please run SSI-30-S-C-36" for arsenic by EPA Method 6020 with a 3 day RUSH TAT.

Thanks,
-Mike

From: Mike Watson
Sent: Wednesday, July 25, 2018 1:11 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Please disregard SSI-30-S-A-24" and SSI-30-S-B-24" for arsenic. Sorry for the confusion.

Thanks,
-Mike

From: Mike Watson
Sent: Wednesday, July 25, 2018 12:34 PM
To: JIM LIN (jiml@aetlab.com)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Please also run SSI-30-S-A-24" for arsenic by EPA Method 6020 with a 3 day RUSH TAT.

Thanks,
-Mike

From: Mike Watson
Sent: Tuesday, July 24, 2018 4:00 PM
To: 'JIM LIN'
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020 with a 3 day RUSH TAT:

SSI-18-W-A-24"
SSI-18-W-D-6"
SSI-30-N-A-24"
SSI-30-N-B-24"
SSI-30-N-D-6"

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 25, 2018 1:38 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018
Attachments: image001.jpg; image002.jpg

Please run SSI-38-A-6" and SSI-38-C-6" for lead STLC and TCLP using a normal TAT.

Please run SSI-30-S-36" and SSI-30-S-B-6" for arsenic STLC and TCLP using a normal TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 1:30 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-18-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93323, 93324, 93325

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 9:06 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run SSI-38-G-18" for lead by EPA Method 6020 using a 3 day RUSH TAT.

Please run SSI-30-S-D-6" and SSI-30-S-D-36" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Friday, July 27, 2018 6:59 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93323, 93324, 93325

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Monday, July 30, 2018 9:09 AM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018
Attachments: image001.jpg; image003.jpg; image004.jpg

Hi Jim,

In addition, please run SSI-38-G-6" for lead STLC and TCLP using a normal TAT.

Also, please run SSI-30-S-B-24" and SSI-30-S-B-36" for arsenic STLC and TCLP using a normal TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: Mike Watson
PLACEWORKS
Sent: Monday, July 30, 2018 9:06 AM
To: 'JIM LIN'
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Hi Jim,

Please run SSI-38-G-18" for lead by EPA Method 6020 using a 3 day RUSH TAT.

Please run SSI-30-S-D-6" and SSI-30-S-D-36" for arsenic by EPA Method 6020 using a 3 day RUSH TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com
PLACEWORKS

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COOLER RECEIPT FORM

Client Name: Place Work

Project Name:

AETL Job Number: 93323, 93324 & 93325

Date Received: 07/18/18 Received by: Jean Claude

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

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):

Inside temperature of shipping container No 1: 2.7°C, No 2: _____, No 3: _____

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

How are samples preserved: ☐ None, ☒ Ice , ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, _ MeOH
_ Other (Specify):

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks 2850 Inland Empire Blvd. Suite B Ontario, CA 90002

Project ID: LASD1-32.7 Date Received 07/18/2018 Date Reported 07/24/2018

Telephone: (909)989-4449
Attention: Mike Watson

Job Number	Order Date	Client
93325	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 40 samples with the following specification on 07/18/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93325.01	SSI-30-W-G-24"	07/18/2018	Soil	1
93325.02	SSI-30-W-G-36"	07/18/2018	Soil	1
93325.04	SSI-30-W-A-24"	07/18/2018	Soil	1
93325.05	SSI-30-W-A-36"	07/18/2018	Soil	1
93325.06	SSI-30-W-D-6"	07/18/2018	Soil	1
93325.07	SSI-30-W-D-36"	07/18/2018	Soil	1
93325.09	SSI-30-S-C-24"	07/18/2018	Soil	1
93325.13	SSI-30-S-A-24"	07/18/2018	Soil	1
93325.14	DUP51	07/18/2018	Soil	1
93325.20	SSI-30-S-D-24"	07/18/2018	Soil	1
93325.24	SSI-31-E-F-6"	07/18/2018	Soil	1
93325.25	SSI-31-E-F-24"	07/18/2018	Soil	1
93325.26	SSI-31-E-F-36"	07/18/2018	Soil	1
93325.28	SSI-31-E-B-24"	07/18/2018	Soil	1
93325.29	SSI-31-E-B-36"	07/18/2018	Soil	1
93325.31	SSI-31-E-C-24"	07/18/2018	Soil	1
93325.32	SSI-31-E-C-36"	07/18/2018	Soil	1
93325.35	SSI-31-E-A-24"	07/18/2018	Soil	1
93325.36	DUP53	07/18/2018	Soil	1
93325.37	SSI-31-E-A-36"	07/18/2018	Soil	1
93325.38	SSI-31-E-D-6"	07/18/2018	Soil	1
93325.39	SSI-31-E-D-24"	07/18/2018	Soil	1
93325.40	SSI-31-E-D-36"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/25/2018	2	Normal	--

Continued

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Ordered By

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Ontario, CA 90002

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/18/2018
Date Reported 07/24/2018

Job Number	Order Date	Client
93325	07/18/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93325.03	SSI-30-W-A-6"	07/18/2018	Soil	1
93325.08	SSI-30-S-C-6"	07/18/2018	Soil	1
93325.10	SSI-30-S-C-36"	07/18/2018	Soil	1
93325.11	SSI-30-S-A-6"	07/18/2018	Soil	1
93325.12	DUP50	07/18/2018	Soil	1
93325.15	SSI-30-S-A-36"	07/18/2018	Soil	1
93325.19	SSI-30-S-D-6"	07/18/2018	Soil	1
93325.21	SSI-30-S-D-36"	07/18/2018	Soil	1
93325.23	SSI-30-S-60"	07/18/2018	Soil	1
93325.27	SSI-31-E-B-6"	07/18/2018	Soil	1
93325.30	SSI-31-E-C-6"	07/18/2018	Soil	1
93325.33	SSI-31-E-A-6"	07/18/2018	Soil	1
93325.34	DUP52	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/25/2018	2	Normal	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93325.16	SSI-30-S-B-6"	07/18/2018	Soil	1
93325.17	SSI-30-S-B-24"	07/18/2018	Soil	1
93325.18	SSI-30-S-B-36"	07/18/2018	Soil	1
93325.22	SSI-30-S-36"	07/18/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/25/2018	2	Normal	mg/L
(6010B-STLC) ^ AS	07/25/2018	2	Normal	mg/L
(6020) ^ AS	07/25/2018	2	Normal	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody. Analytical non-conformances have been noted on the report.

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 90002

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C5

Our Lab I.D.			Method Blank	93325.03	93325.08		
Client Sample I.D.				SSI-30-W-A-6"	SSI-30-S-C-6"		
Date Sampled				07/18/2018	07/18/2018		
Date Prepared			07/20/2018	07/20/2018	07/20/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/23/2018	07/23/2018	07/23/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.05	0.10	ND	8.32	2.58		

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ANALYTICAL RESULTS

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **3**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8

Our Lab I.D.			Method Blank	93325.10			
Client Sample I.D.				SSI-30-S-C-3 6"			
Date Sampled				07/18/2018			
Date Prepared			07/27/2018	07/27/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/30/2018	07/30/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	2.32			

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C5

Our Lab I.D.			93325.11	93325.12			
Client Sample I.D.			SSI-30-S-A-6 "	DUP50			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			07/20/2018	07/20/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/23/2018	07/23/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	1.64	2.31			

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Attn: Mike Watson

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **5**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C7

Our Lab I.D.			Method Blank	93325.15			
Client Sample I.D.				SSI-30-S-A-3 6"			
Date Sampled				07/18/2018			
Date Prepared			07/25/2018	07/25/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/26/2018	07/26/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	ND	7.47			

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ANALYTICAL RESULTS

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C5

Our Lab I.D.			93325.16				
Client Sample I.D.			SSI-30-S-B-6 "				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	143				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **7**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C7

Our Lab I.D.			93325.17	93325.18			
Client Sample I.D.			SSI-30-S-B-2 4"	SSI-30-S-B-3 6"			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			07/25/2018	07/25/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/26/2018	07/26/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			50	50			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	2.50	5	123	96.6			

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ANALYTICAL RESULTS

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Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **8**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
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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Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **9**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93325.19				
Client Sample I.D.			SSI-30-S-D-6 "				
Date Sampled			07/18/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	27.8				

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ANALYTICAL RESULTS

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **10**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2

Our Lab I.D.			93325.21				
Client Sample I.D.			SSI-30-S-D-3 6"				
Date Sampled			07/18/2018				
Date Prepared			08/01/2018				
Preparation Method			3050B				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.92				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C5

Our Lab I.D.			93325.22				
Client Sample I.D.			SSI-30-S-36"				
Date Sampled			07/18/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/23/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			50				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	2.50	5	119				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C7

Our Lab I.D.			93325.23				
Client Sample I.D.			SSI-30-S-60"				
Date Sampled			07/18/2018				
Date Prepared			07/25/2018				
Preparation Method			3050B				
Date Analyzed			07/26/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.08				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C5

Our Lab I.D.			93325.27	93325.30	93325.33	93325.34	
Client Sample I.D.			SSI-31-E-B-6 "	SSI-31-E-C-6 "	SSI-31-E-A-6 "	DUP52	
Date Sampled			07/18/2018	07/18/2018	07/18/2018	07/18/2018	
Date Prepared			07/20/2018	07/20/2018	07/20/2018	07/20/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			07/23/2018	07/23/2018	07/23/2018	07/23/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	3.52	2.91	3.71	3.01	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C3

Our Lab I.D.			93325.16				
Client Sample I.D.			SSI-30-S-B-6 "				
Date Sampled			07/18/2018				
Date Prepared			07/27/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	8.56				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/01/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/03/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3

Our Lab I.D.			93325.17	93325.18			
Client Sample I.D.			SSI-30-S-B-2 4"	SSI-30-S-B-3 6"			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			08/01/2018	08/01/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			08/03/2018	08/03/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	5.10	3.59			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C3

Our Lab I.D.			93325.22				
Client Sample I.D.			SSI-30-S-36"				
Date Sampled			07/18/2018				
Date Prepared			07/27/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	7.67				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			1311				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			93325.16				
Client Sample I.D.			SSI-30-S-B-6 "				
Date Sampled			07/18/2018				
Date Prepared			07/27/2018				
Preparation Method			1311				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	2.69				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0731182C13

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/31/2018				
Preparation Method			1311				
Date Analyzed			08/02/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0731182C13

Our Lab I.D.			93325.17	93325.18			
Client Sample I.D.			SSI-30-S-B-2 4"	SSI-30-S-B-3 6"			
Date Sampled			07/18/2018	07/18/2018			
Date Prepared			07/27/2018	07/31/2018			
Preparation Method			1311	1311			
Date Analyzed			07/30/2018	08/02/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic (TCLP)	0.50	1.00	1.11	0.723J			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			93325.22				
Client Sample I.D.			SSI-30-S-36"				
Date Sampled			07/18/2018				
Date Prepared			07/27/2018				
Preparation Method			1311				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	1.44				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5; Dup or Spiked Sample: 93346.13; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0727182C5; Dup or Spiked Sample: 93346.13; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; 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 (TCLP)	**10.0**	**10.5**	**105**	**10.0**	**10.5**	**105**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0731182C13; Dup or Spiked Sample: 93418.03; LCS: Clean Sand; LCS Prepared: 07/31/2018; LCS Analyzed: 08/02/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0731182C13; Dup or Spiked Sample: 93418.03; LCS: Clean Sand; LCS Prepared: 07/31/2018; LCS Analyzed: 08/02/2018; 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 (TCLP)	**10.0**	**8.68**	**86.8**	**10.0**	**8.44**	**84.4**	**2.8**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C3; Dup or Spiked Sample: 93309.22; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**1.40**	**1.68**	**18.2**	**<20**						

QC Batch No: 0727182C3; Dup or Spiked Sample: 93309.22; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; 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**	**10.6**	**106**	**10.0**	**10.5**	**105**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0801182C3; Dup or Spiked Sample: 93282.04; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0801182C3; Dup or Spiked Sample: 93282.04; LCS: Clean Sand; LCS Prepared: 08/01/2018; LCS Analyzed: 08/03/2018; 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**	**9.44**	**94.4**	**10.0**	**9.44**	**94.4**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C5; Dup or Spiked Sample: 93325.03; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/23/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**8.32**	**1.00**	**10.1 #**	**178**	**1.00**	**10.3 #**	**198**	**10.6**	**80-120**	**<15**

QC Batch No: 0720181C5; Dup or Spiked Sample: 93325.03; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/23/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.01**	**101**	**1.00**	**1.15**	**115**	**13.0**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
Suite B
Ontario, CA 90002

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **29**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0725181C7; Dup or Spiked Sample: 93324.22; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**2.99**	**1.00**	**3.76 #**	**77.0**	**1.00**	**3.76 #**	**77.0**	**<1**	**80-120**	**<15**

QC Batch No: 0725181C7; Dup or Spiked Sample: 93324.22; LCS: Clean Sand; QC Prepared: 07/25/2018; QC Analyzed: 07/26/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.02**	**102**	**1.00**	**1.05**	**105**	**2.9**	**80-120**	**<15**	

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Page: **30**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C8; Dup or Spiked Sample: 93299.34; LCS: Clean Sand; QC Prepared: 07/27/2018; QC Analyzed: 07/30/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.77**	**1.00**	**5.20 #**	**143**	**1.00**	**5.25 #**	**148**	**3.4**	**80-120**	**<15**

QC Batch No: 0727181C8; Dup or Spiked Sample: 93299.34; LCS: Clean Sand; QC Prepared: 07/27/2018; QC Analyzed: 07/30/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.02**	**102**	**1.00**	**1.02**	**102**	**<1**	**80-120**	**<15**	

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Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **31**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93325	07/18/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**3.32**	**1.00**	**4.11**	**79.0**	**1.00**	**4.07**	**75.0**	**5.2**	**80-120**	**<15**

QC Batch No: 0801181C2; Dup or Spiked Sample: 93282.07; LCS: Clean Sand; QC Prepared: 08/01/2018; QC Analyzed: 08/02/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.04**	**104**	**1.00**	**1.03**	**103**	**<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

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Number of Pages	**71**
Date Received	**07/19/2018**
Date Reported	**09/10/2018**

Job Number	Order Date	Client
93346	07/19/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 26 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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CHAIN OF CUSTODY RECORD

107119

AETL JOB No. 93346 Page 1 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 3350 INLAND EMPIRE BL #B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St LA CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6020 Pb	STLC/TCLP As	STLC/TCLP Pb	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-31-N-F-6"		7/19/18	0742	Soil	1 acetate sleeve	ice	*		(*)		X	93346-01
2	SSI-31-N-F-24"		↓	0744	↓	↓	↓	(*)				X	93346-02
3	SSI-31-N-F-36"			0746								X	93346-03
4	SSI-31-N-B-6"			0804				X		*			93346-04
5	SSI-31-N-B-24"			0806				*				X	93346-05
6	SSI-31-N-B-36"			0808								X	93346-06
7	SSI-31-N-C-6"			0814				X					93346-07
8	SSI-31-N-C-24"			0816								X	93346-08
9	SSI-31-N-C-36"			0818								X	93346-09
10	SSI-31-N-G-6"			0826								X	93346-10
11	SSI-31-N-G-24"			0828								X	93346-11
12	SSI-31-N-G-36"			0830								X	93346-12
13	SSI-31-N-A-6"			0844				X		*			93346-13
14	SSI-31-N-A-24"			0846				*				X	93346-14
15	SSI-31-N-A-36"		↓	0848	↓	↓	↓					X	93346-15

TEST INSTRUCTIONS & COMMENTS:
* (3) 7/25 3 DAYS (TOTAL)
(2) 7/25 Normal (STLC/TCLP)
(*) (1) TOTAL 8/1 3 DAYS
(1) STLC/TCLP 8/1 Normal
(A) (0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

DATA DELIVERABLE REQUIRED
☐ HARD COPY
☒ PDF
☐ GEOTRACKER (GLOBAL ID) ____________
☐ OTHER (PLEASE SPECIFY) ____________

	1.	2.	3.
RELINQUISHED BY (SAMPLER) / RELINQUISHED BY	Signature: [signature] Printed Name: MIKE ELATON Date: 7/19/18 Time: 1615	Signature: Printed Name: Date: Time:	Signature: [signature] Printed Name: C. PADILLA Date: 7/19/18 Time: 1758
RECEIVED BY / RECEIVED BY LABORATORY	Signature: [signature] Printed Name: CHAMPION PADILLA Date: 7/16/18 Time: 1615	Signature: Printed Name: Date: Time:	AETL Signature: [signature] Printed Name: Jean-Claude Date: 07/19/18 Time: 1758

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CHAIN OF CUSTODY RECORD

107120

AETL JOB No. 93346

Page 2 of 5

COMPANY	PLACEWORKS	PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	2850 INLAND EMPIRE BLVD ONTARIO, CA	PHONE / FAX	909 989 4449
PROJECT NAME	David Starr Jordan Senior ES SSI	PROJECT #	LASD1-327
SITE NAME AND ADDRESS	David Starr Jordan Senior ES 2265 E. 103rd ST LA CA 90002	PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-31-N-D-6"		7/19/18	0855	Soil	1 gal w/ Sleeve	ice
2	SSI-31-N-D-24"			0857			
3	SSI-31-N-D-36"			0859			
4	SSI-32-D-6"			1045			
5	SSI-32-D-18"			1047			
6	SSI-32-D-36"			1049			
7	SSI-32-B-6"			1050			
8	SSI-32-B-18"			1052			
9	DUP 54			[redacted]			
10	SSI-32-B-36"			1054			
11	DUP 55						
12	SSI-32-C-6"			1056			
13	SSI-32-C-18"			1058			
14	SSI-32-C-36"			1100			
15	SSI-32-F-6"			1104			

ANALYSIS REQUESTED

SAMPLE ID	6020 As	6020 Pb	STLC/TCLP As	STLC/TCLP Pb	Hold
SSI-31-N-D-6"	*				X
SSI-31-N-D-24"	⊛				X
SSI-31-N-D-36"					X
SSI-32-D-6"	*	*			X
SSI-32-D-18"	*				X
SSI-32-D-36"	⊛				X
SSI-32-B-6"	X	X	*	⚠	
SSI-32-B-18"	X	*	*	⊛	
DUP 54	X				
SSI-32-B-36"	*	⊛			X
DUP 55					X
SSI-32-C-6"	X	X			
SSI-32-C-18"	X				
SSI-32-C-36"					X
SSI-32-F-6"					X

TEST INSTRUCTIONS & COMMENTS

* (5) 7/25 3 DAYS (TOTAL)
(2) 7/25 Normal (STLC/TCLP)
⊛ (3) TOTAL 8/1 3 DAYS
(1) STLC/TCLP 8/1 Normal
⚠ (1) STLC/TCLP 8/21

93346.16
93346.17
93346.18
93346.19
93346.20
93346.21
93346.22
93346.23
no time 93346.24
93346.25
93346.26
93346.27
93346.28
93346.29
9346-30

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	[signature]		[signature]
Printed Name:	MIKE WATSON		C. FRANKLIN
Date / Time:	7/19/18 1615		7/19/18 1758
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: AETL 3.**
Signature:	[signature]		[signature]
Printed Name:	CHANDON FRANKLIN		Tera Claude
Date / Time:	7/19/18 1615		07/19/18 1758

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CHAIN OF CUSTODY RECORD

107121

AETL JOB No. 93346

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 IMPERIAL HWY ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS
PROJECT #: LASD1-32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E 103rd St LA CA 90002
PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 SSI-32F-18"		7/19/18	1106	Soil	6 acetate sleeve	ice
2 SSI-32F-36"			1108			
3 SSI-32-A-6"			1114			
4 SSI-32-A-18"			1116			
5 SSI-32-A-36"			1118			
6 SSI-34-D-6"			1152			
7 SSI-34-D-18"			1154			
8 SSI-34-D-36"			1156			
9 SSI-34-B-6"			1206			
10 SSI-34-B-18"			1208			
11 SSI-34-B-36"			1210			
12 SSI-34-A-6"			1216			
13 DUP56						
14 SSI-34-A-18"			1218			
15 SSI-34-A36"			1220			

ANALYSIS REQUESTED

6020 As
6020 Pb
8015M TPH
8015M-EPH
8015M-EPH Silica Gel
STLC/TCLP As
STLC/TCLP Pb
Hold

								93346.31
								93346.32
X	X				*			93346.33
X	*							93346.34
								93346.35
								93346.36
								93346.37
								93346.38
X						93346.39		Lead only
X						93346.40		Lead only
								93346.41
	X				*			93346.42
	X							93346.43
	X				*			93346.44
	*							93346.45

TEST INSTRUCTIONS & COMMENTS

* (2) 7/25 3DAYS (TOTAL)
(3) 7/25 Normal (STLC/TCLP)
* (0)
* (0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: CARMELO
Date: 7/19/18 Time: 1615	Date: Time:	Date: 7/19/18 Time: 1758
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.** AETL
Signature:	Signature:	Signature:
Printed Name: CARMELO	Printed Name:	Printed Name: Jean Claude
Date: 7/19/18 Time: 1615	Date: Time:	Date: 7/19/18 Time: 175

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COOLER RECEIPT FORM

Client Name: Place water

Project Name:

AETL Job Number: 93346 & 93347 Received by: Jesa Sandu

Date Received: 07/19/18

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

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

Inside temperature of shipping container No 1: 3.2°C, No 2: 2-8°C No 3:

Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Acet. tube + 5035 kits

How are samples preserved: ☐ None, ☒ Ice, ☐ Blue Ice, ☐ Dry Ice
_ None, _ HNO_3, _ NaOH, _ ZnOAc, _ HCl, _ $Na_2S_2O_3$, ☒ MeOH
☒ Other (Specify): NaHSO4 pre + 5035 kits preserved into the field

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

Explain all "No" answers for above questions:

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 25, 2018 1:04 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-19-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020, using a 3 day RUSH TAT:

SSI-31-N-A-24"
SSI-31-N-B-24"
SSI-31-N-D-6"
SSI-31-N-F-6"
SSI-32-B-36"
SSI-32-D-6"
SSI-32-D-18"

Please run the following samples for lead by EPA Method 6020, using a 3 day RUSH TAT:

SSI-32-A-18"
SSI-32-B-18"
SSI-32-D-6"
SSI-34-A-36"
SSI-34-C-6"
SSI-34-C-18"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 5:23 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-19-2018

Dear Mike,

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 25, 2018 1:41 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-19-2018
Attachments: image001.jpg; image002.jpg

Please run SSI-32-A-6", SSI-32-B-6", SSI-34-A-6" and SSI-34-A-18" for lead STLC and TCLP using a normal TAT.

Please run SSI-31-N-A-6", SSI-31-N-B-6", SSI-32-B-6" and SSI-32-B-18" for arsenic STLC and TCLP using a normal TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 5:23 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-19-2018

Dear Mike,

Herewith please find Summary Table & PDF results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93346

Thank you.

Should you have additional question, please feel free to contact us.

Jim Lin
Operations Manager
AETL
818-845-8200

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, August 1, 2018 2:27 PM
To: JIM LIN
Cc: Andrew Modugno (andrew.modugno@lausd.net)
Subject: Re: Summary Table Results of Samples from \David Starr Jordan Senior High School, Los Angeles, CA\ for samples additional requested on 07-24-2018

Hi Jim,

This is in regard to the results from yesterday. There were two typos noted in the results. SSI-32-D-6" and SSI-32-D-18" both had an extra A added to them.

Please run the following samples for arsenic by EPA 6020 using a 3 day RUSH TAT:
SSI-14-A-90"
SSI-14-D-90"
SSI-14-S-F-36"
SSI-14-E-C-60"
SSI-14-E-D-18"
SSI-14-S-G-36"
SSI-31-N-F-24"
SSI-31-N-D-24"
SSI-32-D-36"

Please run SSI-32-B-36" for lead by Method 6020 using a 3 day RUSH TAT.

Please run the following samples for arsenic STLC and TCLP using a normal TAT:
SSI-14-A-60"
SSI-14-D-48"
SSI-14-S-F-18"
SSI-31-N-F-6"

Please run SSI-32-B-18" and SSI-34-C-6" for lead STLC and TCLP using a normal TAT.

Thanks,
-Mike

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From: JIM LIN <jiml@aetlab.com>
Sent: Wednesday, August 1, 2018 1:39:17 AM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Dear Mike,
Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .
AETL Job No: 93347
Thank you.

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Ontario, CA 91264

Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/19/2018
Date Reported 07/24/2018

Job Number	Order Date	Client
93346	07/19/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 45 samples with the following specification on 07/19/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93346.01	SSI-31-N-F-6"	07/19/2018	Soil	1
93346.04	SSI-31-N-B-6"	07/19/2018	Soil	1
93346.13	SSI-31-N-A-6"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/23/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/23/2018	4	Rush	mg/L
(6020) ^ AS	07/23/2018	4	Rush	mg/Kg

93346.02	SSI-31-N-F-24"	07/19/2018	Soil	1
93346.05	SSI-31-N-B-24"	07/19/2018	Soil	1
93346.07	SSI-31-N-C-6"	07/19/2018	Soil	1
93346.14	SSI-31-N-A-24"	07/19/2018	Soil	1
93346.16	SSI-31-N-D-6"	07/19/2018	Soil	1
93346.17	SSI-31-N-D-24"	07/19/2018	Soil	1
93346.20	SSI-32-D-18"	07/19/2018	Soil	1
93346.21	SSI-32-D-36"	07/19/2018	Soil	1
93346.24	DUP54	07/19/2018	Soil	1
93346.28	SSI-32-C-18"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/23/2018	4	Rush	mg/Kg

93346.03	SSI-31-N-F-36"	07/19/2018	Soil	1
93346.06	SSI-31-N-B-36"	07/19/2018	Soil	1
93346.08	SSI-31-N-C-24"	07/19/2018	Soil	1
93346.09	SSI-31-N-C-36"	07/19/2018	Soil	1
93346.10	SSI-31-N-G-6"	07/19/2018	Soil	1
93346.11	SSI-31-N-G-24"	07/19/2018	Soil	1

Continued

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Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/19/2018
Date Reported 07/24/2018

Job Number	Order Date	Client
93346	07/19/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93346.12	SSI-31-N-G-36"	07/19/2018	Soil	1
93346.15	SSI-31-N-A-36"	07/19/2018	Soil	1
93346.18	SSI-31-N-D-36"	07/19/2018	Soil	1
93346.26	DUP55	07/19/2018	Soil	1
93346.29	SSI-32-C-36"	07/19/2018	Soil	1
93346.30	SSI-32-F-6"	07/19/2018	Soil	1
93346.31	SSI-32-F-18"	07/19/2018	Soil	1
93346.32	SSI-32-F-36"	07/19/2018	Soil	1
93346.35	SSI-32-A-36"	07/19/2018	Soil	1
93346.36	SSI-34-D-6"	07/19/2018	Soil	1
93346.37	SSI-34-D-18"	07/19/2018	Soil	1
93346.38	SSI-34-D-36"	07/19/2018	Soil	1
93346.39	SSI-34-B-6"	07/19/2018	Soil	1
93346.41	SSI-34-B-36"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/23/2018	4	Rush	--

93346.19	SSI-32-D-6"	07/19/2018	Soil	1
93346.25	SSI-32-B-36"	07/19/2018	Soil	1
93346.27	SSI-32-C-6"	07/19/2018	Soil	1
93346.34	SSI-32-A-18"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	07/23/2018	4	Rush	mg/Kg
(6020) ^ PB	07/23/2018	4	Rush	mg/Kg

93346.22	SSI-32-B-6"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ AS	07/23/2018	4	Rush	mg/L
(6010/7000TCLP) ^ PB	07/23/2018	4	Rush	mg/L
(6010B-STLC) ^ AS	07/23/2018	4	Rush	mg/L
(6010B-STLC) ^ STLC-PB	07/23/2018	4	Rush	mg/L
(6020) ^ AS	07/23/2018	4	Rush	mg/Kg
(6020) ^ PB	07/23/2018	4	Rush	mg/Kg

Continued

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Telephone: (909)989-4449
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/19/2018
Date Reported 07/24/2018

Job Number	Order Date	Client
93346	07/19/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93346.23	SSI-32-B-18"	07/19/2018	Soil	1
93346.33	SSI-32-A-6"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	07/23/2018	4	Rush	mg/L
(6010B-STLC) ^ STLC-PB	07/23/2018	4	Rush	mg/L
(6020) ^ AS	07/23/2018	4	Rush	mg/Kg
(6020) ^ PB	07/23/2018	4	Rush	mg/Kg

93346.40	SSI-34-B-18"	07/19/2018	Soil	1
93346.43	DUP56	07/19/2018	Soil	1
93346.45	SSI-34-A-36"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	07/23/2018	4	Rush	mg/Kg

93346.42	SSI-34-A-6"	07/19/2018	Soil	1
93346.44	SSI-34-A-18"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	07/23/2018	4	Rush	mg/L
(6010B-STLC) ^ STLC-PB	07/23/2018	4	Rush	mg/L
(6020) ^ PB	07/23/2018	4	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

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**07/27/2018**				
Preparation Method			**3050B**				
Date Analyzed			**07/30/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	**0.05**	**0.10**	**ND**				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Page: **3**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C9

Our Lab I.D.			93346.01				
Client Sample I.D.			SSI-31-N-F-6 "				
Date Sampled			07/19/2018				
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	57.6				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			Method Blank	**93346.02**			
Client Sample I.D.				SSI-31-N-F-2 4"			
Date Sampled				**07/19/2018**			
Date Prepared			**08/06/2018**	**08/06/2018**			
Preparation Method			**3050B**	**3050B**			
Date Analyzed			**08/07/2018**	**08/07/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	**0.05**	**0.10**	**ND**	**2.46**			

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11

Our Lab I.D.			93346.04				
Client Sample I.D.			SSI-31-N-B-6 "				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	91.2				

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C9

Our Lab I.D.			**93346.05**				
Client Sample I.D.			SSI-31-N-B-2 4"				
Date Sampled			**07/19/2018**				
Date Prepared			**07/27/2018**				
Preparation Method			**3050B**				
Date Analyzed			**07/30/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	**0.05**	**0.10**	**2.50**				

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **8**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11

Our Lab I.D.			93346.07				
Client Sample I.D.			SSI-31-N-C-6 "				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	9.18				

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David Starr Jordan Senior HS
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Page: **9**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11

Our Lab I.D.			93346.13				
Client Sample I.D.			SSI-31-N-A-6 "				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	52.6				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **10**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C9

Our Lab I.D.			93346.14				
Client Sample I.D.			SSI-31-N-A-2 4"				
Date Sampled			07/19/2018				
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.65				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Page: **11**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C9

Our Lab I.D.			93346.16				
Client Sample I.D.			SSI-31-N-D-6 "				
Date Sampled			07/19/2018				
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	49.1				

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David Starr Jordan Senior HS
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Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			**93346.17**				
Client Sample I.D.			SSI-31-N-D-2 4"				
Date Sampled			**07/19/2018**				
Date Prepared			**08/06/2018**				
Preparation Method			**3050B**				
Date Analyzed			**08/07/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	**0.05**	**0.10**	**2.37**				

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David Starr Jordan Senior HS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C9

Our Lab I.D.			93346.19	93346.20			
Client Sample I.D.			SSI-32-D-6"	SSI-32-D-18"			
Date Sampled			07/19/2018	07/19/2018			
Date Prepared			07/27/2018	07/27/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/30/2018	07/30/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	16.9	13.7			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3

Our Lab I.D.			93346.21				
Client Sample I.D.			SSI-32-D-36"				
Date Sampled			07/19/2018				
Date Prepared			08/06/2018				
Preparation Method			3050B				
Date Analyzed			08/07/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.46				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11

Our Lab I.D.			93346.22	93346.23	93346.24		
Client Sample I.D.			SSI-32-B-6"	SSI-32-B-18"	DUP54		
Date Sampled			07/19/2018	07/19/2018	07/19/2018		
Date Prepared			07/20/2018	07/20/2018	07/20/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/24/2018	07/24/2018	07/24/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic	0.50	1.00	55.2	48.2	14.2		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C9

Our Lab I.D.			93346.25				
Client Sample I.D.			SSI-32-B-36"				
Date Sampled			07/19/2018				
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	10.1				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11

Our Lab I.D.			93346.27	93346.28			
Client Sample I.D.			SSI-32-C-6"	SSI-32-C-18"			
Date Sampled			07/19/2018	07/19/2018			
Date Prepared			07/20/2018	07/20/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/24/2018	07/24/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	6.67	5.75			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11

Our Lab I.D.			93346.33				
Client Sample I.D.			SSI-32-A-6"				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	34.6				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11

Our Lab I.D.			93346.34				
Client Sample I.D.			SSI-32-A-18"				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	5.11				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0727181C9

Our Lab I.D.			Method Blank	93346.19			
Client Sample I.D.				SSI-32-D-6"			
Date Sampled				07/19/2018			
Date Prepared			07/27/2018	07/27/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/30/2018	07/30/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	ND	7.78			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C11

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C11

Our Lab I.D.			93346.22				
Client Sample I.D.			SSI-32-B-6"				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Lead	25	50	874				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0727181C9

Our Lab I.D.			93346.23				
Client Sample I.D.			SSI-32-B-18"				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	88.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0629181C1

Our Lab I.D.			Method Blank	93346.25			
Client Sample I.D.				SSI-32-B-36"			
Date Sampled				07/19/2018			
Date Prepared			06/29/2018	06/29/2018			
Preparation Method			3050B	3050B			
Date Analyzed			07/30/2018	07/30/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Lead	0.25	0.50	ND	8.89			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C11

Our Lab I.D.			93346.27				
Client Sample I.D.			SSI-32-C-6"				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	11.4				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C11

Our Lab I.D.			93346.33				
Client Sample I.D.			SSI-32-A-6"				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			100				
Analytes	**MDL**	**PQL**	**Results**				
Lead	25	50	1,220				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0727181C9

Our Lab I.D.			93346.34				
Client Sample I.D.			SSI-32-A-18"				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	13.7				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C12

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C12

Our Lab I.D.			93346.40				
Client Sample I.D.			SSI-34-B-18"				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	11.5				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C12

Our Lab I.D.			93346.42	93346.43	93346.44		
Client Sample I.D.			SSI-34-A-6"	DUP56	SSI-34-A-18"		
Date Sampled			07/19/2018	07/19/2018	07/19/2018		
Date Prepared			07/20/2018	07/20/2018	07/20/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/24/2018	07/24/2018	07/24/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			50	50	50		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	12	25	152	146	43.0		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0727181C9

Our Lab I.D.			93346.45				
Client Sample I.D.			SSI-34-A-36"				
Date Sampled			07/19/2018				
Date Prepared			07/27/2018				
Preparation Method			3050B				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	11.5				

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David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			93346.01				
Client Sample I.D.			SSI-31-N-F-6 "				
Date Sampled			07/19/2018				
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.50	1.00	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			1311				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			93346.04	93346.13	93346.22		
Client Sample I.D.			SSI-31-N-B-6 "	SSI-31-N-A-6 "	SSI-32-B-6"		
Date Sampled			07/19/2018	07/19/2018	07/19/2018		
Date Prepared			07/27/2018	07/27/2018	07/27/2018		
Preparation Method			1311	1311	1311		
Date Analyzed			07/30/2018	07/30/2018	07/30/2018		
Matrix			Soil	Soil	Soil		
Units			mg/L	mg/L	mg/L		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Arsenic (TCLP)	0.50	1.00	0.750	ND	ND		

Comment(s):
93346.13: Analyzed under dilution due to matrix interference 93346.22: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/24/2018				
Preparation Method			1311				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15

Our Lab I.D.			93346.22				
Client Sample I.D.			SSI-32-B-6"				
Date Sampled			07/19/2018				
Date Prepared			08/24/2018				
Preparation Method			1311				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.50	1.00	ND				

Comment(s):
93346.22: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 07272018

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/30/2018				
Preparation Method			1311				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 07272018

Our Lab I.D.			93346.23				
Client Sample I.D.			SSI-32-B-18"				
Date Sampled			07/19/2018				
Date Prepared			07/30/2018				
Preparation Method			1311				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.50	1.00	ND				

Comment(s):
93346.23: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			1311				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5

Our Lab I.D.			93346.33	93346.42	93346.44		
Client Sample I.D.			SSI-32-A-6"	SSI-34-A-6"	SSI-34-A-18"		
Date Sampled			07/19/2018	07/19/2018	07/19/2018		
Date Prepared			07/27/2018	07/27/2018	07/27/2018		
Preparation Method			1311	1311	1311		
Date Analyzed			07/30/2018	07/30/2018	07/30/2018		
Matrix			Soil	Soil	Soil		
Units			mg/L	mg/L	mg/L		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead (TCLP)	0.50	1.00	ND	ND	ND		

Comment(s):
93346.33: Analyzed under dilution due to matrix interference 93346.42: Analyzed under dilution due to matrix interference 93346.44: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			93346.01				
Client Sample I.D.			SSI-31-N-F-6 "				
Date Sampled			07/19/2018				
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	2.80				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C4

Our Lab I.D.			93346.04	93346.13			
Client Sample I.D.			SSI-31-N-B-6 "	SSI-31-N-A-6 "			
Date Sampled			07/19/2018	07/19/2018			
Date Prepared			07/27/2018	07/27/2018			
Preparation Method			TITLE 22	TITLE 22			
Date Analyzed			07/30/2018	07/30/2018			
Matrix			Soil	Soil			
Units			mg/L	mg/L			
Dilution Factor			10	10			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.50	1.00	2.96	1.53			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			93346.22				
Client Sample I.D.			SSI-32-B-6"				
Date Sampled			07/19/2018				
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			93346.22				
Client Sample I.D.			SSI-32-B-6"				
Date Sampled			07/19/2018				
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	4.65				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 07272018-1

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 07272018-1

Our Lab I.D.			93346.23				
Client Sample I.D.			SSI-32-B-18"				
Date Sampled			07/19/2018				
Date Prepared			07/27/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	2.01				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C4

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			07/27/2018				
Preparation Method			TITLE 22				
Date Analyzed			07/30/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C4

Our Lab I.D.			93346.33	93346.42	93346.44		
Client Sample I.D.			SSI-32-A-6"	SSI-34-A-6"	SSI-34-A-18"		
Date Sampled			07/19/2018	07/19/2018	07/19/2018		
Date Prepared			07/27/2018	07/27/2018	07/27/2018		
Preparation Method			TITLE 22	TITLE 22	TITLE 22		
Date Analyzed			07/30/2018	07/30/2018	07/30/2018		
Matrix			Soil	Soil	Soil		
Units			mg/L	mg/L	mg/L		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead (STLC)	0.50	1.00	105	10.8	0.942		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5; Dup or Spiked Sample: 93346.13; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0727182C5; Dup or Spiked Sample: 93346.13; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; 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 (TCLP)	**10.0**	**10.5**	**105**	**10.0**	**10.5**	**105**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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 (TCLP)	**10.0**	**9.55**	**95.5**	**10.0**	**9.16**	**91.6**	**4.2**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0727182C5; Dup or Spiked Sample: 93346.13; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0727182C5; Dup or Spiked Sample: 93346.13; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; 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	
Lead (TCLP)	**10.0**	**8.93**	**89.3**	**10.0**	**8.97**	**89.7**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 07272018; LCS: Clean Sand; LCS Prepared: 07/30/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 07272018; LCS: Clean Sand; LCS Prepared: 07/30/2018; LCS Analyzed: 07/30/2018; 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	
Lead (TCLP)	**10.0**	**8.93**	**89.3**	**10.0**	**8.97**	**89.7**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0824182C15; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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	
Lead (TCLP)	**10.0**	**9.28**	**92.8**	**10.0**	**9.36**	**93.6**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C4; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0727182C4; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; 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**	**9.97**	**99.7**	**10.0**	**10.6**	**106**	**6.1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9; Dup or Spiked Sample: 93283.06; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**3.94**	**4.30**	**8.7**	**<20**						

QC Batch No: 0803182C9; Dup or Spiked Sample: 93283.06; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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**	**8.78**	**87.8**	**10.0**	**8.58**	**85.8**	**2.3**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16; Dup or Spiked Sample: 93736.01; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Arsenic	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0824182C16; Dup or Spiked Sample: 93736.01; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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**	**9.98**	**99.8**	**10.0**	**9.75**	**97.5**	**2.33**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0727182C4; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**10.8**	**11.2**	**3.6**	**<20**						

QC Batch No: 0727182C4; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; 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	
Lead (STLC)	**10.0**	**9.05**	**90.5**	**10.0**	**9.06**	**90.6**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 07272018-1; Dup or Spiked Sample: 93346.42; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**10.8**	**11.2**	**3.6**	**<20**						

QC Batch No: 07272018-1; Dup or Spiked Sample: 93346.42; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/27/2018; 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	
Lead (STLC)	**10.0**	**9.05**	**90.5**	**10.0**	**9.06**	**90.6**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0824182C16; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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	
Lead (STLC)	**10.0**	**9.30**	**93.0**	**10.0**	**9.10**	**91.0**	**2.2**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0720181C11; Dup or Spiked Sample: 93346.04; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**91.2**	**1.00**	**91.2 #**	**0.1**	**1.00**	**91.2 #**	**0.1**	**<1**	**80-120**	**<15**

QC Batch No: 0720181C11; Dup or Spiked Sample: 93346.04; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.982**	**98.2**	**1.00**	**1.01**	**101**	**2.8**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0727181C9; Dup or Spiked Sample: 93346.01; LCS: Clean Sand; QC Prepared: 07/27/2018; QC Analyzed: 07/30/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**69.1**	**1.00**	**74.9 #**	**580**	**1.00**	**77.3 #**	**820**	**34.3**	**80-120**	**<15**

QC Batch No: 0727181C9; Dup or Spiked Sample: 93346.01; LCS: Clean Sand; QC Prepared: 07/27/2018; QC Analyzed: 07/30/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.02**	**102**	**1.00**	**1.03**	**103**	**<1**	**80-120**	**<15**	

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QUALITY CONTROL RESULTS

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Ontario, CA 91264

Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **67**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0806181C3; Dup or Spiked Sample: 93283.04; LCS: Clean Sand; LCS Prepared: 08/06/2018; LCS Analyzed: 08/07/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.930**	**93.0**	**1.00**	**0.918**	**91.8**	**1.3**	**80-120**	**<15**	

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0629181C1; Dup or Spiked Sample: 93346.01; LCS: Clean Sand; LCS Prepared: 06/29/2018; LCS Analyzed: 07/30/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.958**	**95.8**	**1.00**	**0.962**	**96.2**	**<1**	**75-125**	**<15**	

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Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C11; Dup or Spiked Sample: 93346.04; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**43.5**	**1.00**	**47.1 #**	**360**	**1.00**	**47.7 #**	**420**	**15.4**	**75-125**	**<15**

QC Batch No: 0720181C11; Dup or Spiked Sample: 93346.04; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.989**	**98.9**	**1.00**	**0.972**	**97.2**	**1.7**	**75-125**	**<15**	

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Telephone: (909)989-4449
Attn: Mike Watson
Page: **70**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0720181C12; Dup or Spiked Sample: 93346.40; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**13.8**	**1.00**	**13.8 #**	**0.1**	**1.00**	**13.8 #**	**0.1**	**<1**	**75-125**	**<15**

QC Batch No: 0720181C12; Dup or Spiked Sample: 93346.40; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/24/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.968**	**96.8**	**1.00**	**0.961**	**96.1**	**<1**	**75-125**	**<15**	

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Telephone: (909)989-4449
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **71**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93346	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0727181C9; Dup or Spiked Sample: 93346.01; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.960**	**96.0**	**1.00**	**0.961**	**96.1**	**<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

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Number of Pages	**19**
Date Received	**07/19/2018**
Date Reported	**09/10/2018**

Telephone: (310)670-9221
Attention: Mike Watson

Job Number	Order Date	Client
93347	07/19/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Enclosed please find results of analyses of 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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CHAIN OF CUSTODY RECORD

93347 107122

AETL JOB No. 93347

Page 4 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD ONTARIO CA 91764
PHONE: 909 291 4949
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: LASDF32-7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St LA CA 90002
PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1 DUP57		7/19/18		soil	1 acetate sleeve	ice
2 SSI-34-C-6'			1226			
3 SSI-34-C-18"			1228			
4 SSI-34-C-36"			1230			
5 SSI-34-10'			1242		1 acetate sleeve 4 VOAs	5035/ice
6 SSI-34-15'			1246			
7 SSI-34-20'			1247			
8 SSI-34-25'			1249			
9 SSI-34-30'			1252		1 acetate sleeve	ice
10 SSI-49-10'			1325		1 acetate sleeve 4 VOAs	5035/ice
11 SSI-49-15'			1328			
12 SSI-49-20'			1330			
13 SSI-49-25'			1333			
14 SSI-49-30'			1337		1 acetate sleeve	ice
15 SSI-48-10'			1410		1 acetate sleeve 4 VOAs	5035/ice

ANALYSIS REQUESTED

6020 As	6020 Pb	8015M TPH-D	8015M TPH-O	8015M extended	STLC/TCLP Lead	Hold
						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		

TEST INSTRUCTIONS & COMMENTS

* (2) 7/25 3 DAYS (TOTAL)
* (1) 8/1 STLC/TCLP Normal

93347.01
93347.02
93347.23
93347.4
93347.05
93347.06
93347.07
93347.08
93347.09
93347.10
93347.11
93347.12
93347.13
93347.14
93347.15

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

RELINQUISHED BY: SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature:	Signature:
Printed Name: MIKE WATSON	Printed Name:	Printed Name: C. HAMILTON
Date: 7/19/18 Time: 1615	Date: Time:	Date: 7/19/18 Time: 1758
RECEIVED BY: 1.	**RECEIVED BY:** 2.	**RECEIVED BY LABORATORY:** AETL 3.
Signature:	Signature:	Signature:
Printed Name: CHARLTON HAMILTON	Printed Name:	Printed Name: Leah Lande
Date: 7/19/18 Time: 1615	Date: Time:	Date: 07/19/18 Time: 1758

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

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CHAIN OF CUSTODY RECORD

106393

AETL JOB No. 93347

Page 5 of 5

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD STE B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Senior HS SSI
PROJECT #: (AJD132.7
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E. 103rd St LA CA 90002
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-48-15'		7/19/18	1413	soil	1 acetate liner + 4 VOAs	5035 ice
2	SSI-48-20'			1416			
3	SSI-48-25'			1420			
4	SSI-48-30'			1423		1 acetate liner + 4 VOAs	ice
5	DUP 58						5035/ice
6	SSI-47-10'			1503			
7	SSI-47-15'			1506			
8	SSI-47-20'			1510			
9	SSI-47-25'			1513			
10	SSI-47-30'			1517		1 acetate liner + 4 VOAs	
11	DUP 59						5035/ice
12							
13							
14							
15							

ANALYSIS REQUESTED

6020 As	6020 Pb	8015M TPH-g	8015M TPH-d	8015M TPH-oil	HOLD
		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	

TEST INSTRUCTIONS & COMMENTS

*(6)

93347.16
93347.17
93347.18
93347.19
93347.20
93347.21
93347.22
93347.23
93347.24
93347.25
93347.26

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER:		RELINQUISHED BY:	RELINQUISHED BY:
Signature:		Signature:	Signature:
Printed Name:	MIKE WATSON	Printed Name:	Printed Name: C. PALMERO
Date:	7/19/18	Date:	7/19/18
Time:	1615	Time:	1758
RECEIVED BY:		RECEIVED BY:	RECEIVED BY LABORATORY: AETL
Signature:		Signature:	Signature:
Printed Name:	CHARLTON PALMERO	Printed Name:	Printed Name: Jean Lande
Date:	7/19/18	Date:	07/19/18
Time:	1615	Time:	1758

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

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COOLER RECEIPT FORM

Client Name: Place Work

Project Name:

AETL Job Number: 93346 & 93347

Date Received: 07/19/18 Received by: Jean Sandoval

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

☐ Others:

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

Inside temperature of shipping container No 1: 3.2°C, No 2: 2.8°C No 3:

Type of sample containers: ☒ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☒ Others (Specify): Acet. tube + 5035 kits

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

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

☒ Other (Specify): NaHSO4 no + 5035 kits preserved into the field

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

Explain all "No" answers for above questions:

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, July 25, 2018 1:04 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-19-2018
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic by EPA Method 6020, using a 3 day RUSH TAT:

SSI-31-N-A-24"
SSI-31-N-B-24"
SSI-31-N-D-6"
SSI-31-N-F-6"
SSI-32-B-36"
SSI-32-D-6"
SSI-32-D-18"

Please run the following samples for lead by EPA Method 6020, using a 3 day RUSH TAT:

SSI-32-A-18"
SSI-32-B-18"
SSI-32-D-6"
SSI-34-A-36"
SSI-34-C-6"
SSI-34-C-18"

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Tuesday, July 24, 2018 5:23 PM
To: Mike Watson
Subject: Summary Table & PDF Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 07-19-2018

Dear Mike,

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, August 1, 2018 2:27 PM
To: JIM LIN
Cc: Andrew Modugno (andrew.modugno@lausd.net)
Subject: Re: Summary Table Results of Samples from \David Starr Jordan Senior High School, Los Angeles, CA\ for samples additional requested on 07-24-2018

Hi Jim,

This is in regard to the results from yesterday. There were two typos noted in the results. SSI-32-D-6" and SSI-32-D-18" both had an extra A added to them.

Please run the following samples for arsenic by EPA 6020 using a 3 day RUSH TAT:
SSI-14-A-90"
SSI-14-D-90"
SSI-14-S-F-36"
SSI-14-E-C-60"
SSI-14-E-D-18"
SSI-14-S-G-36"
SSI-31-N-F-24"
SSI-31-N-D-24"
SSI-32-D-36"

Please run SSI-32-B-36" for lead by Method 6020 using a 3 day RUSH TAT.

Please run the following samples for arsenic STLC and TCLP using a normal TAT:
SSI-14-A-60"
SSI-14-D-48"
SSI-14-S-F-18"
SSI-31-N-F-6"

Please run SSI-32-B-18" and SSI-34-C-6" for lead STLC and TCLP using a normal TAT.

Thanks,
-Mike

Get Outlook for Android

From: JIM LIN <jiml@aetlab.com>
Sent: Wednesday, August 1, 2018 1:39:17 AM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples additional requested on 07-24-2018

Dear Mike,
Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .
AETL Job No: 93347
Thank you.

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Ordered By

Placeworks
2850 Inland Empire Blvd. Suite B
Ontario, CA 91764

Telephone: (310)670-9221
Attention: Mike Watson

Project ID: LASD1-32.7
Date Received 07/19/2018
Date Reported 07/24/2018

Job Number	Order Date	Client
93347	07/19/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 26 samples with the following specification on 07/19/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93347.01	DUP57	07/19/2018	Soil	1
93347.04	SSI-34-C-36"	07/19/2018	Soil	1
93347.09	SSI-34-30"	07/19/2018	Soil	1
93347.14	SSI-49-30'	07/19/2018	Soil	5
93347.19	SSI-48-30'	07/19/2018	Soil	5
93347.25	SSI-47-30'	07/19/2018	Soil	5

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	07/23/2018	4	Rush	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93347.02	SSI-34-C-6"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	07/23/2018	4	Rush	mg/L
(6010B-STLC) ^ STLC-PB	07/23/2018	4	Rush	mg/L
(6020) ^ PB	07/23/2018	4	Rush	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93347.03	SSI-34-C-18"	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	07/23/2018	4	Rush	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93347.05	SSI-34-10'	07/19/2018	Soil	5
93347.06	SSI-34-15'	07/19/2018	Soil	5
93347.07	SSI-34-20'	07/19/2018	Soil	5
93347.08	SSI-34-25'	07/19/2018	Soil	5
93347.10	SSI-49-10'	07/19/2018	Soil	5
93347.11	SSI-49-15'	07/19/2018	Soil	5
93347.12	SSI-49-20'	07/19/2018	Soil	5
93347.13	SSI-49-25"	07/19/2018	Soil	1
93347.15	SSI-48-10'	07/19/2018	Soil	5

Continued

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Placeworks **2850 Inland Empire Blvd. Suite B** **Ontario, CA 91764**	**Project ID: LASD1-32.7** **Date Received 07/19/2018** **Date Reported 07/24/2018**
Telephone: (310)670-9221 **Attention: Mike Watson**	

Job Number	Order Date	Client
93347	07/19/2018	PLACE

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

93347.16	SSI-48-15'	07/19/2018	Soil	5
93347.17	SSI-48-20'	07/19/2018	Soil	5
93347.18	SSI-48-25'	07/19/2018	Soil	5
93347.20	DUP58	07/19/2018	Soil	5
93347.21	SSI-47-10'	07/19/2018	Soil	5
93347.22	SSI-47-15'	07/19/2018	Soil	5
93347.23	SSI-47-20'	07/19/2018	Soil	5
93347.24	SSI-47-25'	07/19/2018	Soil	5
93347.26	DUP59	07/19/2018	Soil	5

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
(M8015D) ^ C13-C40	07/23/2018	4	Rush	mg/Kg
(M8015G)	07/23/2018	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 Director

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 072018OB2/072018OB3

Our Lab I.D.			Method Blank	93347.05	93347.06	93347.07	93347.08
Client Sample I.D.				SSI-34-10'	SSI-34-15'	SSI-34-20'	SSI-34-25'
Date Sampled				07/19/2018	07/19/2018	07/19/2018	07/19/2018
Date Prepared			07/20/2018	07/19/2018	07/19/2018	07/19/2018	07/19/2018
Preparation Method			5030	5035A	5035A	5035A	5035A
Date Analyzed			07/21/2018	07/21/2018	07/21/2018	07/21/2018	07/21/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	93347.05	93347.06	93347.07	93347.08
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		97.0	107	114	115	108

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David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 072018OB2/072018OB3

Our Lab I.D.			93347.10	93347.11	93347.12	93347.13	93347.15
Client Sample I.D.			SSI-49-10'	SSI-49-15'	SSI-49-20'	SSI-49-25"	SSI-48-10'
Date Sampled			07/19/2018	07/19/2018	07/19/2018	07/19/2018	07/19/2018
Date Prepared			07/19/2018	07/19/2018	07/19/2018	07/19/2018	07/19/2018
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			07/21/2018	07/21/2018	07/21/2018	07/21/2018	07/21/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			93347.10	93347.11	93347.12	93347.13	93347.15
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		114	110	113	109	111

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David Starr Jordan SHS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 072018OB2/072018OB3

Our Lab I.D.			93347.16	93347.17	93347.18	93347.20	93347.21
Client Sample I.D.			SSI-48-15'	SSI-48-20'	SSI-48-25'	DUP58	SSI-47-10'
Date Sampled			07/19/2018	07/19/2018	07/19/2018	07/19/2018	07/19/2018
Date Prepared			07/19/2018	07/19/2018	07/19/2018	07/19/2018	07/19/2018
Preparation Method			5035A	5035A	5035A	5035A	5035A
Date Analyzed			07/21/2018	07/21/2018	07/21/2018	07/21/2018	07/21/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	ND
Our Lab I.D.			93347.16	93347.17	93347.18	93347.20	93347.21
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Bromofluorobenzene	75-125		100	110	107	107	103

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 072018OB2/072018OB3

Our Lab I.D.			93347.22	93347.23	93347.24	93347.26	
Client Sample I.D.			SSI-47-15'	SSI-47-20'	SSI-47-25'	DUP59	
Date Sampled			07/19/2018	07/19/2018	07/19/2018	07/19/2018	
Date Prepared			07/19/2018	07/19/2018	07/19/2018	07/19/2018	
Preparation Method			5035A	5035A	5035A	5035A	
Date Analyzed			07/21/2018	07/21/2018	07/21/2018	07/23/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Gasoline and Light HC. (C4-C12)	0.100	1.000	ND	ND	ND	ND	
Our Lab I.D.			93347.22	93347.23	93347.24	93347.26	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Bromofluorobenzene	75-125		102	102	111	94.4	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 072018PB2

Our Lab I.D.			Method Blank	93347.05	93347.06	93347.07	93347.08
Client Sample I.D.				SSI-34-10'	SSI-34-15'	SSI-34-20'	SSI-34-25'
Date Sampled				07/19/2018	07/19/2018	07/19/2018	07/19/2018
Date Prepared			07/20/2018	07/20/2018	07/20/2018	07/20/2018	07/20/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			07/20/2018	07/20/2018	07/21/2018	07/21/2018	07/21/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.			Method Blank	93347.05	93347.06	93347.07	93347.08
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		89.6	93.4	89.8	92.1	90.6

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David Starr Jordan SHS
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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 072018PB2

Our Lab I.D.			93347.10	93347.11	93347.12	93347.13	93347.15
Client Sample I.D.			SSI-49-10'	SSI-49-15'	SSI-49-20'	SSI-49-25"	SSI-48-10'
Date Sampled			07/19/2018	07/19/2018	07/19/2018	07/19/2018	07/19/2018
Date Prepared			07/20/2018	07/20/2018	07/20/2018	07/20/2018	07/20/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			07/21/2018	07/21/2018	07/21/2018	07/21/2018	07/21/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	ND	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	ND	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	ND	ND	ND	ND	ND
Our Lab I.D.			93347.10	93347.11	93347.12	93347.13	93347.15
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		90.1	88.6	95.1	90.9	90.3

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 072018PB2

Our Lab I.D.			93347.16	93347.17	93347.18	93347.20	93347.21
Client Sample I.D.			SSI-48-15'	SSI-48-20'	SSI-48-25'	DUP58	SSI-47-10'
Date Sampled			07/19/2018	07/19/2018	07/19/2018	07/19/2018	07/19/2018
Date Prepared			07/20/2018	07/20/2018	07/20/2018	07/20/2018	07/20/2018
Preparation Method			3550B	3550B	3550B	3550B	3550B
Date Analyzed			07/21/2018	07/21/2018	07/21/2018	07/21/2018	07/21/2018
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
TPH as Diesel (C13-C22)	1.0	5.0	309	ND	ND	ND	ND
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	40.5	ND	ND	ND	ND
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	350	ND	ND	ND	ND
Our Lab I.D.			93347.16	93347.17	93347.18	93347.20	93347.21
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**
Chlorobenzene	75-125		89.1	102	88.9	89.4	87.2

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David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 072018PB2

Our Lab I.D.			93347.22	93347.23	93347.24	93347.26	
Client Sample I.D.			SSI-47-15'	SSI-47-20'	SSI-47-25'	DUP59	
Date Sampled			07/19/2018	07/19/2018	07/19/2018	07/19/2018	
Date Prepared			07/20/2018	07/20/2018	07/20/2018	07/20/2018	
Preparation Method			3550B	3550B	3550B	3550B	
Date Analyzed			07/21/2018	07/21/2018	07/21/2018	07/21/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
TPH as Diesel (C13-C22)	1.0	5.0	652	6.50	ND	ND	
TPH as Heavy Hydrocarbons (C23-C40)	1.0	5.0	252	ND	ND	ND	
TPH Total as Diesel and Heavy HC.C13-C40	1.0	5.0	904	6.50	ND	ND	
Our Lab I.D.			93347.22	93347.23	93347.24	93347.26	
Surrogates	**%Rec.Limit**		**% Rec.**	**% Rec.**	**% Rec.**	**% Rec.**	
Chlorobenzene	75-125		91.2	90.6	88.0	87.9	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0727181C8/0727181C18

Our Lab I.D.			Method Blank	93347.02	93347.03		
Client Sample I.D.				SSI-34-C-6"	SSI-34-C-18"		
Date Sampled				07/19/2018	07/19/2018		
Date Prepared			07/27/2018	07/27/2018	07/27/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			07/30/2018	07/30/2018	07/30/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			1	1	1		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	0.25	0.50	ND	52.1	14.2		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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ANALYTICAL RESULTS

Ordered By

Placeworks
2850 Inland Empire Blvd.
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Ontario, CA 91764

Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **12**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7

Our Lab I.D.			93347.02				
Client Sample I.D.			SSI-34-C-6"				
Date Sampled			07/19/2018				
Date Prepared			08/03/2018				
Preparation Method			1311				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.50	1.00	ND				

Comment(s):
93347.02: Analyzed under dilution due to matrix interference

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **13**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9

Our Lab I.D.			93347.02				
Client Sample I.D.			SSI-34-C-6"				
Date Sampled			07/19/2018				
Date Prepared			08/03/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/06/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	0.672				

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Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **15**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0803182C7; Dup or Spiked Sample: 93283.02; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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	
Lead (TCLP)	**10.0**	**8.89**	**88.9**	**10.0**	**8.87**	**88.7**	**<1**	**80-120**	**<15**	

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David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **16**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0803182C9; Dup or Spiked Sample: 93283.06; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0803182C9; Dup or Spiked Sample: 93283.06; LCS: Clean Sand; LCS Prepared: 08/03/2018; LCS Analyzed: 08/06/2018; 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	
Lead (STLC)	**10.0**	**8.19**	**81.9**	**10.0**	**8.23**	**82.3**	**<1**	**80-120**	**<15**	

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David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **17**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0727181C8/0727181C18; Dup or Spiked Sample: 93346.01; LCS: Clean Sand; LCS Prepared: 07/27/2018; LCS Analyzed: 07/30/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.960**	**96.0**	**1.00**	**0.961**	**96.1**	**<1**	**75-125**	**<15**	

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David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **18**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015D), TPH as Diesel and Heavy Hydrocarbons Using GC/FID

QC Batch No: 072018PB2; Dup or Spiked Sample: 93347.05; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/20/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
TPH as Diesel (C13-C22)	0.00	500	580	116	500	580	116	<1	75-125	<20
Surrogates										
Chlorobenzene	0.00	100	84.9	84.9	100	85.9	85.9	1.2	75-125	<20

QC Batch No: 072018PB2; Dup or Spiked Sample: 93347.05; LCS: Clean Sand; QC Prepared: 07/20/2018; QC Analyzed: 07/20/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Diesel (C13-C22)	500	580	116	500	565	113	2.6	75-125	<20	
Surrogates										
Chlorobenzene	100	87.3	87.3	100	85.1	85.1	2.6	75-125	<20	

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Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **19**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93347	07/19/2018	PLACE

Method: (M8015G), TPH as Gasoline and Light Hydrocarbons Using GC/FID

QC Batch No: 072018OB2/072018OB3; LCS: Clean Sand; LCS Prepared: 07/20/2018; LCS Analyzed: 07/21/2018;
Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
TPH as Gasoline and Light HC. (C4-C12)	**1.00**	**0.941**	**94.1**	**1.00**	**0.928**	**92.8**	**1.4**	**75-125**	**<20**	
Surrogates										
Bromofluorobenzene	**0.0500**	**0.0570**	**114**	**0.0500**	**0.0560**	**112**	**1.8**	**75-125**	**<20**	

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Data Qualifiers and Descriptors

Data Qualifier:

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

Definition:

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

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Data Qualifiers and Descriptors

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

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Ordered By

Placeworks
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Los Angeles, CA 90017-

Telephone: (310)670-9221
Attention: Mike Watson

Number of Pages	**33**
Date Received	**08/10/2018**
Date Reported	**09/07/2018**

Job Number	Order Date	Client
93597	08/10/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.

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CHAIN OF CUSTODY RECORD

109628

AETL JOB No. 93597

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE LATJ-V
COMPANY ADDRESS: 2850 INLAND EMPIRE BLVD ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan SHS SSI
PROJECT #: LASD 32.7
SITE NAME AND ADDRESS: David Starr Jordan SHS LA, CA 90002
PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 ADD	6020 PB	STLC LEAD	TCLP LEAD	HOLD	TEST INSTRUCTIONS & COMMENTS
1 SSI-4-N-A-20"		8/10/18	1302	Soil	Laceted sleeve	ICE					X	93597.01
2 SSI-59-18"			1314				X					93597.02
3 SSI-59-42"			1316				*				X	93597.03
4 SSI-59-60"			1318								X	93597.04
5 SSI-3-N-F-60"			1336				X					93597.05
6 SSI-3-N-F-90"			1338								X	93597.06
7 SSI-3-N-F-120"			1340								X	93597.07
8 SSI-60-18"			1354				X					93597.08
9 SSI-60-42"			1356				*				X	93597.09
10 SSI-60-60"			1358								X	93597.10
11 SSI-56-6"			1415				X	X	*	*		93597.11
12 SSI-56-24"			1417				*				X	93597.12
13 SSI-56-42"			1419								X	93597.13
14 DUP 61							X	X				93597.14
15 SSI-30-5-8-60"		↓	1432	↓	↓	↓	X					93597.15

TEST INSTRUCTIONS & COMMENTS:
* (3) 8/15 3 DAYS
* (1) 8/21

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE LATJ-V		Sargis P
Date / Time:	8/10/18 1700	/	8/10/18 1835
	RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:			
Printed Name:	Sargis P		Anti-
Date / Time:	8/10/18 1700	/	08/10/18 1835

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

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CHAIN OF CUSTODY RECORD

109629

AETL JOB No. 93597

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2350 INLAND EMPIRE Bl #3 [illegible] ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan Samb HS SSI
PROJECT #: LASDI-327
SITE NAME AND ADDRESS: David Starr Jordan SHS 2265 E 103rd St, LA, CA 90002
PO #:

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	6010	Hold	TEST INSTRUCTIONS & COMMENTS
1	SSI-30-S-B-90'		8/10/18	1434	Soil	1 acetate sleeve	ice	*		X	93597.16
2	SSI-55-6"			1444				X			93597.17
3	SSI-55-24"			1446						X	93597.18
4	SSI-55-42"			1448						X	93597.19
5	SSI-54-6"			1451				X			93597.20
6	SSI-54-24"			1453						X	93597.21
7	SSI-54-42"			1455						X	93597.22
8	SSI-52-6"			1506				X	X		93597.23
9	SSI-52-18"			1509						X	93597.24
10	SSI-52-60"			1512						X	93597.25
11	SSI-32-E-6"			1518				X			93597.26
12	SSI-32-E-18"			1520						X	93597.27
13	SSI-32-E-36"			1522						X	93597.28
14	SSI-33-S-6"			1528				X	X		93597.29
15	SSI-33-S-18"		↓	1530	↓	↓	↓	X	X		93597.30

TEST INSTRUCTIONS & COMMENTS: *(1) 8/15 3 DAYS; ⊛(0)

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

	1.	2.	3.
RELINQUISHED BY	(SAMPLER) Signature: [signature]; Printed Name: MIKE WATSON; Date: 8/10/18; Time: 1700	Signature: ; Printed Name: ; Date: ; Time:	Signature: [signature]; Printed Name: Sargis-P; Date: 8/10/18; Time: 1835
RECEIVED BY	Signature: [signature]; Printed Name: Sargis; Date: 8/10/18; Time: 1700	Signature: ; Printed Name: ; Date: ; Time:	(LABORATORY: AETL) Signature: [signature]; Printed Name: [illegible]; Date: 08/10/18; Time: 1835

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

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CHAIN OF CUSTODY RECORD

109645

AETL JOB No. 93597

Page 6 of 6

COMPANY: PLACEWORKS
PROJECT MANAGER: MIKE WATSON
COMPANY ADDRESS: 2850 INLAND EMPIRE BL #B ONTARIO CA 91764
PHONE: 909 989 4449
FAX:
PROJECT NAME: David Starr Jordan SHS SSI
PROJECT #: LASDI-32.7
SITE NAME AND ADDRESS: 2265 E 103rd St, LA CA 90002
PO#:
David Starr Jordan SHS

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-33-5-36"		8/10/18	1532	Soil	Encore	ice
2	SSI-53-6"			1538			
3	SSI-53-18"			1540			
4	SSI-53-36"			1542			
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							

ANALYSIS REQUESTED

	6020 As	6020 Pb	Hold
1			X
2	X	X	
3			X
4			X

TEST INSTRUCTIONS & COMMENTS

*(6)
⊛(6)

93597 .31
93597 .32
93597 .33
93597 .34

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	4	PROPERLY COOLED (Y) N / NA	
CUSTODY SEALS Y (N) NA		SAMPLES INTACT (Y) N / NA	
RECEIVED IN GOOD COND (Y) N		SAMPLES ACCEPTED (Y) N	

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	1.	2.	3.
RELINQUISHED BY SAMPLER:	Signature:	Signature:	Signature:
	Printed Name: MIKE WATSON	Printed Name:	Printed Name:
	Date: 8/10/18 Time: 1700	Date: Time:	Date: 8/10/18 Time: 1835
RECEIVED BY:	Signature:	Signature:	Signature:
	Printed Name:	Printed Name:	Printed Name:
	Date: 8/10/18 Time: 1700	Date: Time:	Date: 8/10/18 Time: 1835

RECEIVED BY LABORATORY: AETL

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, August 15, 2018 4:58 PM
To: JIM LIN
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: RE: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 08-10-2018 (2 of 2)
Attachments: image001.jpg; image002.jpg

Hi Jim,

There was a typo noted. Please correct "SSI-4-59-18"" to "SSI-59-18".

Please run the following samples for arsenic by EPA Method 6020 using a 3 day TAT:
SSI-30-S-B-90"
SSI-56-24"
SSI-59-42"
SSI-60-42"

Please run SSI-56-6" for lead STLC and TCLP using a normal TAT.

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

From: JIM LIN [mailto:jiml@aetlab.com]
Sent: Wednesday, August 15, 2018 3:31 PM
To: Mike Watson
Subject: Summary Table Results of Samples from "David Starr Jordan Senior High School, Los Angeles, CA" for samples Collected on 08-10-2018 (2 of 2)

Dear Mike,

Herewith please find Summary Table results of analysis of samples from project "David Starr Jordan Senior High School, Los Angeles, CA" .

AETL Job No: 93597 (PDF will be ready later)

Thank you.

Should you have additional question, please feel free to contact us.

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Tuesday, August 21, 2018 12:18 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: David Starr Jordan Senior HS Additional Analyses
Attachments: image001.jpg; image002.jpg

Hi Jim,

Please run the following samples for arsenic STLC and TCLP using a normal TAT:
SSI-4-N-A-30"
SSI-7-30"
SSI-12-S/13-S-A-36"
SSI-14-E-D-18"
SSI-30-S-24"

Please run SSI-56-6" for lead STLC and TCLP using a normal TAT.

Thank you,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

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909.989.4449 | mwatson@placeworks.com | placeworks.com

PLACEWORKS

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COOLER RECEIPT FORM

Client Name: Place Works
Project Name:
AETL Job Number: 93596, 93597
Date Received: 08/10/18 Received by: Artin
Carrier: ☒ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

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

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

Explain all "No" answers for above questions:

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Ordered By

Placeworks **700 S. Flower St., Suite 600** **Los Angeles, CA 90017-**	**Project ID: LASD1-32.7** **Date Received 08/10/2018** **Date Reported 08/15/2018**
Telephone: (310)670-9221 **Attention: Mike Watson**	

Job Number	Order Date	Client
93597	08/10/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 34 samples with the following specification on 08/10/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
93597.01	SSI-4-N-A-120"	08/10/2018	Soil	1
93597.04	SSI-59-60"	08/10/2018	Soil	1
93597.06	SSI-3-N-F-90"	08/10/2018	Soil	1
93597.07	SSI-3-N-F-120"	08/10/2018	Soil	1
93597.10	SSI-60-60"	08/10/2018	Soil	1
93597.13	SSI-56-42"	08/10/2018	Soil	1
93597.18	SSI-55-24"	08/10/2018	Soil	1
93597.19	SSI-55-42"	08/10/2018	Soil	1
93597.21	SSI-54-24"	08/10/2018	Soil	1
93597.22	SSI-54-42"	08/10/2018	Soil	1
93597.24	SSI-52-18"	08/10/2018	Soil	1
93597.25	SSI-52-60"	08/10/2018	Soil	1
93597.27	SSI-32-E-18"	08/10/2018	Soil	1
93597.28	SSI-32-E-36"	08/10/2018	Soil	1
93597.31	SSI-33-S-36"	08/10/2018	Soil	1
93597.33	SSI-53-18"	08/10/2018	Soil	1
93597.34	SSI-53-36"	08/10/2018	Soil	1

Method ^ Submethod	*Req Date*	*Priority*	*TAT*	*Units*
ARCHIVE	08/13/2018	4	Rush	--

93597.02	SSI-59-18"	08/10/2018	Soil	1
93597.03	SSI-59-42"	08/10/2018	Soil	1
93597.05	SSI-3-N-F-60"	08/10/2018	Soil	1
93597.08	SSI-60-18"	08/10/2018	Soil	1
93597.09	SSI-60-42"	08/10/2018	Soil	1
93597.12	SSI-56-24"	08/10/2018	Soil	1

Continued

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Telephone: (310)670-9221 **Attention: Mike Watson**	

Job Number	Order Date	Client
93597	08/10/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

93597.15	SSI-30-S-B-60"	08/10/2018	Soil	1
93597.16	SSI-30-S-B-90"	08/10/2018	Soil	1
93597.17	SSI-55-6"	08/10/2018	Soil	1
93597.20	SSI-54-6"	08/10/2018	Soil	1
93597.26	SSI-32-E-6"	08/10/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	08/13/2018	4	Rush	mg/Kg

93597.11	SSI-56-6"	08/10/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010/7000TCLP) ^ PB	08/13/2018	4	Rush	mg/L
(6010B-STLC) ^ STLC-PB	08/13/2018	4	Rush	mg/L
(6020) ^ AS	08/13/2018	4	Rush	mg/Kg
(6020) ^ PB	08/13/2018	4	Rush	mg/Kg

93597.14	DUP61	08/10/2018	Soil	1
93597.23	SSI-52-6"	08/10/2018	Soil	1
93597.29	SSI-33-S-6"	08/10/2018	Soil	1
93597.30	SSI-33-S-18"	08/10/2018	Soil	1
93597.32	SSI-53-6"	08/10/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ AS	08/13/2018	4	Rush	mg/Kg
(6020) ^ PB	08/13/2018	4	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

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ANALYTICAL RESULTS

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Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Site

David Starr Jordan SHS
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Los Angeles, CA 90002

Page: **3**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2

Our Lab I.D.			93597.02				
Client Sample I.D.			SSI-59-18"				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	12.1				

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David Starr Jordan SHS
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Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C2

Our Lab I.D.			Method Blank	**93597.03**			
Client Sample I.D.				SSI-59-42"			
Date Sampled				**08/10/2018**			
Date Prepared			**08/16/2018**	**08/16/2018**			
Preparation Method			**3050B**	**3050B**			
Date Analyzed			**08/17/2018**	**08/17/2018**			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	**0.05**	**0.10**	**ND**	**2.55**			

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David Starr Jordan SHS
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Los Angeles, CA 90002

Page: **5**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2

Our Lab I.D.			93597.05				
Client Sample I.D.			SSI-3-N-F-60 "				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	2.58				

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David Starr Jordan SHS
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Los Angeles, CA 90002

Page: **6**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2

Our Lab I.D.			93597.08				
Client Sample I.D.			SSI-60-18"				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	27.2				

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David Starr Jordan SHS
2265 E. 103rd St.
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Page: **7**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C2

Our Lab I.D.			**93597.09**				
Client Sample I.D.			SSI-60-42"				
Date Sampled			**08/10/2018**				
Date Prepared			**08/16/2018**				
Preparation Method			**3050B**				
Date Analyzed			**08/17/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	**0.05**	**0.10**	**3.60**				

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David Starr Jordan SHS
2265 E. 103rd St.
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Page: **8**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2

Our Lab I.D.			93597.11				
Client Sample I.D.			SSI-56-6"				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	13.9				

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Los Angeles, CA 90002

Page: **9**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C2

Our Lab I.D.			93597.12				
Client Sample I.D.			SSI-56-24"				
Date Sampled			08/10/2018				
Date Prepared			08/16/2018				
Preparation Method			3050B				
Date Analyzed			08/17/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	3.96				

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Page: **10**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2

Our Lab I.D.			93597.14				
Client Sample I.D.			DUP61				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	4.78				

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Page: **11**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2

Our Lab I.D.			93597.15				
Client Sample I.D.			SSI-30-S-B-6 0"				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	23.4				

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Page: **12**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C2

Our Lab I.D.			93597.16				
Client Sample I.D.			SSI-30-S-B-9 0"				
Date Sampled			08/10/2018				
Date Prepared			08/16/2018				
Preparation Method			3050B				
Date Analyzed			08/17/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	1.93				

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Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **13**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2

Our Lab I.D.			93597.17	93597.20	93597.23	93597.26	
Client Sample I.D.			SSI-55-6"	SSI-54-6"	SSI-52-6"	SSI-32-E-6"	
Date Sampled			08/10/2018	08/10/2018	08/10/2018	08/10/2018	
Date Prepared			08/13/2018	08/13/2018	08/13/2018	08/13/2018	
Preparation Method			3050B	3050B	3050B	3050B	
Date Analyzed			08/14/2018	08/14/2018	08/14/2018	08/14/2018	
Matrix			Soil	Soil	Soil	Soil	
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	
Dilution Factor			1	1	1	1	
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	
Arsenic	0.05	0.10	3.73	3.67	8.32	6.72	

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Page: **14**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C3

Our Lab I.D.			93597.29				
Client Sample I.D.			SSI-33-S-6"				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Arsenic	0.50	1.00	15.6				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C3

Our Lab I.D.			93597.30	93597.32			
Client Sample I.D.			SSI-33-S-18"	SSI-53-6"			
Date Sampled			08/10/2018	08/10/2018			
Date Prepared			08/13/2018	08/13/2018			
Preparation Method			3050B	3050B			
Date Analyzed			08/14/2018	08/14/2018			
Matrix			Soil	Soil			
Units			mg/Kg	mg/Kg			
Dilution Factor			1	1			
Analytes	**MDL**	**PQL**	**Results**	**Results**			
Arsenic	0.05	0.10	2.69	4.54			

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0813181C2

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0813181C2

Our Lab I.D.			93597.11	93597.14	93597.23		
Client Sample I.D.			SSI-56-6"	DUP61	SSI-52-6"		
Date Sampled			08/10/2018	08/10/2018	08/10/2018		
Date Prepared			08/13/2018	08/13/2018	08/13/2018		
Preparation Method			3050B	3050B	3050B		
Date Analyzed			08/14/2018	08/14/2018	08/14/2018		
Matrix			Soil	Soil	Soil		
Units			mg/Kg	mg/Kg	mg/Kg		
Dilution Factor			10	10	10		
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**		
Lead	2.50	5	69.3	16.4	41.3		

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0813181C3

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0813181C3

Our Lab I.D.			93597.29				
Client Sample I.D.			SSI-33-S-6"				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	19.8				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0813181C3

Our Lab I.D.			93597.30				
Client Sample I.D.			SSI-33-S-18"				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	0.25	0.50	11.7				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0813181C3

Our Lab I.D.			93597.32				
Client Sample I.D.			SSI-53-6"				
Date Sampled			08/10/2018				
Date Prepared			08/13/2018				
Preparation Method			3050B				
Date Analyzed			08/14/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	38.9				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/24/2018				
Preparation Method			1311				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15

Our Lab I.D.			93597.11				
Client Sample I.D.			SSI-56-6"				
Date Sampled			08/10/2018				
Date Prepared			08/24/2018				
Preparation Method			1311				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (TCLP)	0.50	1.00	ND				

Comment(s):
93597.11: Analyzed under dilution due to matrix interference

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.05	0.10	ND				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16

Our Lab I.D.			93597.11				
Client Sample I.D.			SSI-56-6"				
Date Sampled			08/10/2018				
Date Prepared			08/24/2018				
Preparation Method			TITLE 22				
Date Analyzed			08/27/2018				
Matrix			Soil				
Units			mg/L				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead (STLC)	0.50	1.00	2.42				

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6010/7000TCLP), Toxicity Characteristic Leaching Procedure (TCLP,EPA 1311)

QC Batch No: 0824182C15; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (TCLP)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0824182C15; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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	
Lead (TCLP)	**10.0**	**9.28**	**92.8**	**10.0**	**9.36**	**93.6**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6010B-STLC), Soluble Threshold Limit Concentration (STLC)

QC Batch No: 0824182C16; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; Units: mg/L

Analytes	SM Result	SM DUP Result	RPD %	SM RPD % Limit						
Lead (STLC)	**ND**	**ND**	**<1**	**<20**						

QC Batch No: 0824182C16; LCS: Clean Sand; LCS Prepared: 08/24/2018; LCS Analyzed: 08/27/2018; 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	
Lead (STLC)	**10.0**	**9.30**	**93.0**	**10.0**	**9.10**	**91.0**	**2.2**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C2; Dup or Spiked Sample: 93597.02; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**12.1**	**1.00**	**12.8 #**	**70.0**	**1.00**	**13.0**	**90.0**	**25.0**	**80-120**	**<15**

QC Batch No: 0813181C2; Dup or Spiked Sample: 93597.02; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**1.01**	**101**	**1.00**	**1.00**	**100**	**<1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0813181C3; Dup or Spiked Sample: 93597.29; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**15.6**	**1.00**	**15.8 #**	**20.0**	**1.00**	**16.1 #**	**50.0**	**85.7**	**80-120**	**<15**

QC Batch No: 0813181C3; Dup or Spiked Sample: 93597.29; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.989**	**98.9**	**1.00**	**1.01**	**101**	**2.1**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Arsenic by ICP/MS

QC Batch No: 0816181C2; Dup or Spiked Sample: 93631.01; LCS: Clean Sand; QC Prepared: 08/16/2018; QC Analyzed: 08/17/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Arsenic	**5.44**	**1.00**	**6.69**	**125**	**1.00**	**6.52**	**108**	**14.6**	**80-120**	**<15**

QC Batch No: 0816181C2; Dup or Spiked Sample: 93631.01; LCS: Clean Sand; QC Prepared: 08/16/2018; QC Analyzed: 08/17/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Arsenic	**1.00**	**0.999**	**99.9**	**1.00**	**0.907**	**90.7**	**9.7**	**80-120**	**<15**	

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Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0813181C2; Dup or Spiked Sample: 93597.02; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**34.5**	**1.00**	**33.9 #**	**-59.9**	**1.00**	**34.2 #**	**-29.9**	**<1**	**75-125**	**<15**

QC Batch No: 0813181C2; Dup or Spiked Sample: 93597.02; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.982**	**98.2**	**1.00**	**0.986**	**98.6**	**<1**	**75-125**	**<15**	

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QUALITY CONTROL RESULTS

Ordered By

Placeworks
700 S. Flower St., Suite 600
Los Angeles, CA 90017-

Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan SHS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **33**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
93597	08/10/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 0813181C3; Dup or Spiked Sample: 93597.29; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	**19.8**	**1.00**	**22.9 #**	**310**	**1.00**	**23.0 #**	**320**	**3.2**	**75-125**	**<15**

QC Batch No: 0813181C3; Dup or Spiked Sample: 93597.29; LCS: Clean Sand; QC Prepared: 08/13/2018; QC Analyzed: 08/14/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.989**	**98.9**	**1.00**	**0.984**	**98.4**	**<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

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Ordered By

Placeworks
700 S. Flower St., Suite 600
Los Angeles, CA 90017-

Telephone: (310)670-9221
Attention: Mike Watson

Number of Pages	**4**
Date Received	**07/17/2018**
Date Reported	**09/28/2018**

Job Number	Order Date	Client
94011	09/13/2018	PLACE

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI
Site: David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

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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CHAIN OF CUSTODY RECORD

108769

94011

AETL JOB No. ~~93298~~

Page 3 of 8

COMPANY: [illegible]
PROJECT MANAGER: [illegible]
COMPANY ADDRESS: [illegible] Ontario CA 91768
PHONE: 909 [illegible] 4984
FAX:
PROJECT NAME: [illegible] SSI
PROJECT #: LAD1327
SITE NAME AND ADDRESS: [illegible] LA CA 90052
PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	6020 As	As 6020	Hold	TEST INSTRUCTIONS & COMMENTS
1 DUP43		7/17/18		Soil	1 [illegible]	Ice		[*] 94011.01	X	~~93298.31~~
2 SSI-3-N-G-18"		↓	0912	↓	↓	↓	*		X	93298.32
3 SSI-3-N-G-30"			0913				*		X	93298.33
4 SSI-3-N-G-42"			0914						X	93298.34
5 SSI-3-N-A-18"			0916				X			93298.35
6 SSI-3-N-A-30"			0917				X			93298.36
7 SSI-3-N-A-42"			0918						X	93298.37
8 SSI-3-N-D-18"			0920						X	93298.38
9 SSI-3-N-D-30"			0921						X	93298.39
10 SSI-3-N-D-42"			0922						X	93298.40
11 SSI-7-F-30"			0934						X	93298.41
12 SSI-7-F-60"			0936						X	93298.42
13 SSI-7-F-90"			0938						X	93298.43
14 SSI-7-B-30"			0944				X			93298.44
15 SSI-7-B-60"		↓	0946	↓	↓	↓			X	93298.45

TEST INSTRUCTIONS & COMMENTS: *(2) 7/24 3 DAYS; ⊛(0); △(0); [*] 9/13 3 DAYS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

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

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

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature]; Printed Name: M. Ravatte; Date: 7/17/18; Time: 1440	Signature: ; Printed Name: ; Date: ; Time: (crossed out)	Signature: [signature]; Printed Name: C. [illegible]; Date: 7/17/18; Time: 1725
RECEIVED BY	Signature: [signature]; Printed Name: [illegible]; Date: 7/17/18; Time: 1440	Signature: ; Printed Name: ; Date: ; Time: (crossed out)	LABORATORY: AETL; Signature: [signature]; Printed Name: ; Date: ; Time:

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

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94011

CHAIN OF CUSTODY RECORD

107120

AETL JOB No. ~~93346~~

Page 2 of 5

COMPANY	PLACEWORKS
PROJECT MANAGER	MIKE WATSON
COMPANY ADDRESS	3300 INLAND EMPIRE BLVD ONTARIO, CA
PHONE / FAX	909 989 4449
PROJECT NAME	David Starr Jordan Senior HS SSI
PROJECT #	LAD1-327
SITE NAME AND ADDRESS	David Starr Jordan Senior HS 2265 E 103rd St LA CA 90002
PO #	

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	SSI-31-N-D-6"		7/19/18	0855	Soil	Laguna Sleeve	Ice
2	SSI-31-N-D-24"			0857			
3	SSI-31-N-D-36"			0859			
4	SSI-32-D-6"			1045			
5	SSI-32-D-18"			1047			
6	SSI-32-D-36"			1049			
7	SSI-32-B-6"			1050			
8	SSI-32-B-18"			1052			
9	DUP 54			[illegible]			
10	SSI-32-B-36"			1054			
11	DUP 55						
12	SSI-32-C-6"			1056			
13	SSI-32-C-18"			1058			
14	SSI-32-C-36"			1100			
15	SSI-32-F-6"			1104			

ANALYSIS REQUESTED

	6020 As	6020 Pb	STLC/TCLP As	STLC/TCLP Pb	Pb 6020	As 6020	Hold	TEST INSTRUCTIONS & COMMENTS
1	*						X	93346-16
2	⊛						X	93346-17
3							X	93346-18
4	*	*					X	93346-19
5	*						X	93346-20
6	⊛						X	93346-21
7	X	X	*					93346-22
8	X	*	*	⊛				93346-23
9	X				✱			94011-02 no time ~~93346-24~~
10	*	⊛					X	93346-25
11						✱	X	~~93346-26~~ 94011-03
12	X	X						93346-27
13	X							93346-28
14							X	93346-29
15							X	93346-30

(5) 7/25 3 DAYS (TOTAL)
(2) 7/25 Normal (STLC/TCLP)
⊛ (3) TOTAL 8/1 3 DAYS
(1) STLC/TCLP 8/1 Normal
✱ 9/13 3 DAYS

SAMPLE RECEIPT - TO BE FILLED BY LABORATORY

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

TURN AROUND TIME

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

DATA DELIVERABLE REQUIRED

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

	RELINQUISHED BY SAMPLER 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:			
Printed Name:	MIKE WATSON		
Date: / Time:	7/19/18 1615		7/19/18 1758
	RECEIVED BY: 1.	RECEIVED BY: 2.	RECEIVED BY LABORATORY: AETL 3.
Signature:			
Printed Name:	CHARLOTTE RAMIREZ		Tessa Laude
Date: / Time:	7/19/18 1615		07/19/18 1758

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

JIM LIN

From: Mike Watson [mwatson@placeworks.com]
Sent: Wednesday, September 12, 2018 3:50 PM
To: JIM LIN (jiml@aetlab.com)
Cc: Modugno, Andrew (andrew.modugno@lausd.net)
Subject: Jordan HS
Attachments: image001.jpg; image002.jpg

Hi Jim,

Sorry for the late notice, but I need some additional analyses. Please use 3 day TAT for both requests.

Please run the following for lead by EPA Method 6020:
~~DUP15 collected 6/13/18~~ ✓
DUP54 collected 7/19/18 93346.24

Please run the following for arsenic by EPA Method 6020:
DUP43 collected 7/17/18 93298.31
DUP55 collected 7/19/18 93346.26

Thanks,

MICHAEL J. WATSON, PG
Associate Geologist
Professional Geologist CA #8177

2850 Inland Empire Boulevard, Suite B | Ontario, California 91764
909.989.4449 | mwatson@placeworks.com | placeworks.com

PLACEWORKS

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Ordered By

Placeworks **700 S. Flower St., Suite 600** **Los Angeles, CA 90017-**	**Project ID: LASD1-32.7** **Date Received 07/17/2018** **Date Reported 09/28/2018**
Telephone: (310)670-9221 **Attention: Mike Watson**	

Job Number	Order Date	Client
94011	09/13/2018	PLACE

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 3 samples with the following specification on 09/13/2018.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94011.01	DUP43	07/17/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/17/2018	4	Rush	--

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94011.02	DUP54	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6020) ^ PB	09/17/2018	4	Rush	mg/Kg

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
94011.03	DUP55	07/19/2018	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
ARCHIVE	09/17/2018	4	Rush	--

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

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

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

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ANALYTICAL RESULTS

Ordered By

Placeworks
700 S. Flower St., Suite 600
Los Angeles, CA 90017-

Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Page: **2**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
94011	07/17/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 07202018-11

Our Lab I.D.			Method Blank				
Client Sample I.D.							
Date Sampled							
Date Prepared			**07/20/2018**				
Preparation Method			**3050B**				
Date Analyzed			**07/24/2018**				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	**0.25**	**0.50**	**ND**				

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ANALYTICAL RESULTS

Ordered By

Placeworks
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Page: **3**

Site

David Starr Jordan Senior HS
2265 E. 103rd St.
Los Angeles, CA 90002

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
94011	07/17/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 07202018-11

Our Lab I.D.			94011.02				
Client Sample I.D.			DUP54				
Date Sampled			07/19/2018				
Date Prepared			07/20/2018				
Preparation Method			3050B				
Date Analyzed			07/24/2018				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			10				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.50	5	11.3				

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QUALITY CONTROL RESULTS

Ordered By

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Los Angeles, CA 90017-

Telephone: (310)670-9221
Attn: Mike Watson

Site

David Starr Jordan Senior HS
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Los Angeles, CA 90002

Page: **4**

Project ID: LASD1-32.7
Project Name: David Starr Jordan SHS SSI

AETL Job Number	Submitted	Client
94011	07/17/2018	PLACE

Method: (6020), Lead by ICPMS

QC Batch No: 07202018-11; Dup or Spiked Sample: 94011.02; LCS: Clean Sand; LCS Prepared: 07/20/2018; LCS Analyzed: 07/24/2018; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	**1.00**	**0.989**	**98.9**	**1.00**	**0.972**	**97.2**	**1.7**	**75-125**	**<15**	

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